

LUCAS FRANCO

Software Engineer

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Book a Meeting

EXPERIENCE

Lead Software Engineer

Blue Bridge Asset Management - Financial services
📅 December 2025 - March 2026 📍 London, UK

- Architected and delivered a structured products trading platform for BlueBridge Asset Management, enabling private clients to discover, price, and purchase complex instruments including Autocall, Phoenix Autocall, and Options notes issued by major banks.
- Engineered real-time market data pipelines integrating Bloomberg data feeds and implementing low-latency WebSocket streaming to distribute live bid/ask prices, yields, and product analytics across the trading platform.
- Designed an event-driven architecture using Node.js and Python microservices to power stateful pricing services, product normalization, and real-time portfolio valuation exposed via REST APIs and asynchronous messaging.
- Implemented a secure trade execution workflow managing order validation, issuer confirmations, transaction lifecycle events, and client portfolio updates for structured product transactions.
- Built scalable cloud infrastructure using Azure Kubernetes Service (AKS), Azure App Services, Azure Functions, Azure Service Bus, Azure Key Vault, Azure Storage, and Azure PostgreSQL with Docker containers, CI/CD pipelines, automated integration testing, and SendGrid-based transactional notifications.

Lead Software Engineer

Boston Consulting Group - Consultancy services
📅 June 2024 - September 2025 📍 London, UK

- Led the development of a complex medical web platform for Bayer, enabling secure upload, manipulation, and sharing of DICOM medical imaging files.
- Designed and implemented a collaborative system where radiologists worldwide can share and discuss cases securely.
- Utilized cutting-edge technologies, including Java, React, Azure Cloud, Material-UI, Nginx, PostgreSQL, Docker, and Python to build a scalable and high-performance platform.
- Integrated AI-driven tools for image analysis and pattern recognition, enhancing diagnostic capabilities.
- Deployed and managed the platform on Azure Cloud, ensuring high availability, scalability, and fault tolerance.

Lead Software Engineer

NATO Communications and Information Agency (NCI Agency)
📅 June 2024 - May 2025 📍 Hague, Netherlands

- Designed and implemented an advanced Strategy Map platform leveraging ArcGIS SDKs, REST APIs, and feature services for layered geospatial visualization of NATO strategic data.
- Optimized ArcGIS workflows with spatial indexing, feature layer caching, and geometry services to handle large-scale datasets while minimizing latency and rendering overhead.
- Integrated ArcGIS with a Java/Spring Boot backend to orchestrate geospatial queries, transformations, and data delivery into the Angular frontend.
- Connected ArcGIS services to Azure Data Lake pipelines, enabling ingestion and normalization of multi-source geospatial/operational data for real-time visualisation.
- Implemented geospatial analytics (buffering, heatmaps, proximity analysis) directly within ArcGIS to support mission-critical decision-making.
- Validated system functionality with TDD/BDD using JUnit, and Cucumber, ensuring correctness of geospatial transformations and business workflows.
- Automated deployments on Azure (AKS, Functions, Event Grid) with CI/CD pipelines in Azure DevOps, supporting continuous delivery of ArcGIS service updates.

Lead Software Engineer

Alvarez & Marsal (A&M) - Consultancy services
📅 April 2024 - July 2024 📍 London, UK

- Lead software engineer at Alvarez & Marsal (A&M), specializing in AI-driven financial analysis for Royal Caribbean and Carnival Cruise.
- Implemented advanced algorithms and machine learning models for automated data processing and trend analysis using Python (NumPy, Pandas) for data manipulation.
- Managed SQL and NoSQL databases (e.g. PostgreSQL, MongoDB) for efficient storage and retrieval of financial data, ensuring data integrity and performance.
- Developed front-end UI with React.js and Redux for seamless financial report upload and mapping.
- Utilized Docker for containerization and Kubernetes for scalable application deployment, supporting reliable and efficient operations.

Lead Software Engineer

NATO (NETMA) - Eurofighter Typhoon and Tornado fighter jets program
📅 October 2023 - April 2024 📍 Munich, UK

- Led the development of a secure internal application utilizing Angular 15, Java, Python, and Alfresco for the management of NATO secret files, enhancing operational efficiency and security compliance.
- Spearheaded the development of a high-security internal application using Angular 15, Java, Python, Alfresco, and MySQL, for the robust management of NATO's classified documents, significantly enhancing data integrity and security protocols.
- Integrated MySQL databases for efficient data storage and retrieval, designing optimized schemas to support complex document management systems, including digital signatures, contracts, and orders, ensuring high availability and reliability.
- Leveraged AI technologies to automate document classification and indexing within the MySQL database, facilitating swift and accurate document handling while maintaining NATO's strict confidentiality and security requirements.
- Coordinated with interdisciplinary teams to implement comprehensive encryption, access control, and MySQL database security measures, protecting against data breaches and ensuring compliance with NATO's stringent security standards.

Lead Software Engineer

SPX Flow - Global industrial equipment and engineering
📅 January 2023 - October 2023 📍 London, UK

- Developed a cutting-edge application to monitor and predict sensor data in real-time for production lines responsible for bottle manufacturing, ensuring optimized production processes.
- Created a React-based application on AWS that tracked sensor data from bottle production lines, using ML for predictive maintenance.
- Employed AWS Lambda functions, DynamoDB, GraphQL with Apollo Server, and Highcharts for real-time data monitoring and visualization.
- Enhanced predictive capabilities with Amazon SageMaker to streamline part pre-ordering, optimizing production processes.

Lead Software Engineer

NATO - North Atlantic Treaty Organization
📅 October 2021 - January 2023 📍 London, UK

- Led development of a SPA web application for managing special forces called JTAC for NATO member countries using React JS, GraphQL, NodeJS, Kotlin(Java), Styled-components, and High Charts.
- Managed a team of developers for 40% of the time while spending the remaining 60% of the time writing code.
- Conducted peer programming and code reviews, collaborated with designers to advise on UX/UI improvements, and worked with DevOps engineers to improve the CI/CD process using AWS.
- Experienced in developing SPA web applications using React JS, GraphQL, NodeJS, Kotlin (Java), Styled-components, and High Charts.
- Proficient in managing teams, conducting peer programming and code reviews, and collaborating with designers and DevOps engineers to improve the application and the development process.

Lead Software Engineer

Afiniti - AI Data Research
📅 September 2019 - October 2021 📍 London, UK

- Led the delivery of the first production-ready project called Airo, responsible for the UI interface and server pipeline.
- Built the project from scratch using the latest technologies available, including ReactJS, GraphQL, Styled-Components, Webpack, Material UI, Enzyme, React Testing Library (for testing), Apollo server, and NodeJS.
- Worked in an AGILE environment to deliver new features and hired and trained more software engineers to work closely to ensure timely delivery before the deadline.
- Improved designs and consistency based on business needs, created and maintained different versions of the product, and ensured the product was stable.
- Worked closely with DevOps engineers and provided guidance to set up a stable pipeline for customer needs on AWS cloud infrastructure.

Lead Software Engineer

Atlassian - Software Development
📅 December 2018 - September 2019 📍 Sydney, Australia

- Led the identity project and created an application to manage all Atlassian products, including Jira, Confluence, Slack, and Bitbucket.
- Built the project using ReactJS with TypeScript, GraphQL, Apollo Server, Java 8, and NodeJS with AWS services, and integrated it with GSuite & SAML.
- Developed Java and Node services to handle the back-end functionalities of the application.
- Implemented continuous integration using Bamboo and performed code reviews and peer programming to ensure quality code.
- Worked closely with other Atlassian teams to find the best solution to manage over 10 million clients and subscriptions worldwide to Atlassian products.
- Conducted daily stand-up meetings to monitor progress and ensure timely delivery of the project.

Lead Software Engineer

HSBC - Private Banking
📅 January 2018 - December 2018 📍 London, UK

- Led a team of frontend and backend developers to integrate a software solution from Finantix with Avaloq bank internal system.
- Built an application for HSBC private banking customers to display and analyze their stocks, shares, and transfers in over 28 different currencies.
- Utilized ReactJS, React Native, Redux, Highcharts, Java 8/Scala, Hibernate, NodeJS, and AWS services to create the application.
- Implemented continuous integration using Bamboo and performed code reviews to ensure high-quality code.
- Worked closely with business analysts and graphic designers to understand the requirements and ensure a seamless user experience.
- Conducted daily stand-up meetings to monitor progress and ensured timely delivery of the project.

Lead Software Engineer

Emnos - Data Research
📅 May 2017 - January 2018 📍 London, UK

- Built a web interface using ReactJS & React Native, Python, Java8, NodeJS, Redux, Material UI, and styled-components to analyze big data sales from different supermarkets, such as Walmart(USA), Carrefour(France), and Migros(Switzerland).
- Analyzed large amounts of sales data to generate predictions on sales for different products.
- Helped supermarkets to optimize their product placement strategies by recommending moving, adding, or removing products from shelves to increase sales.
- Collaborated with other data scientists and business analysts to identify key insights and trends in the data.
- Contributed to the development of new analytical tools and models to improve the accuracy and effectiveness of the predictions.

Senior Full Stack Developer

Credit Suisse - Banking
📅 July 2016 - May 2017 📍 Zurich, Switzerland

- Collaborated closely with business analysts to rebuild and combine 8 banks' internal software into a single SPA.
- Developed new features for wealth management, customer portfolios, stock investments, stock news, calendar appointments, and client services.
- Utilized ReactJS & Redux, NodeJS, Java 8, Elastic Search, GULP, LESS, and HTML to build the new application.
- Responsible for automated testing using JUnit, Cucumber, and Selenium Driver, as well as manual testing in the production environment.
- Worked with a team of developers and project managers to ensure timely delivery of the project.
- Participated in code reviews to maintain high-quality code standards and ensure adherence to best practices.
- Communicated regularly with stakeholders to provide updates on project progress and address any concerns or issues.

Senior Full Stack Developer

Lloyds Bank - Banking
📅 November 2015 - May 2016 📍 London, UK

- Delivery of various internal journeys for mortgages, account creation, and pensions in a team of 25 developers.
- Worked in an AGILE environment to build an isomorphic project using React & Flux for the front end and NodeJS for the API that connects to the bank's internal systems (PEGA and Microsoft Active Directory).
- Ensured that the project adhered to the bank's strict security policies by implementing TDD and BDD test cases.
- Coordinated with business analysts, project managers, and other stakeholders to ensure that the project was delivered on time and within budget.
- Collaborated with other developers to identify and resolve technical issues and improve code quality.
- Participated in code reviews to maintain high standards of code quality and ensure adherence to best practices.
- Delivered a project that was used in Lloyds Bank offices throughout the country, contributing to the overall digital transformation of the bank.

Senior Full Stack Developer

Sky TV - Television
📅 January 2015 - November 2015 📍 London, UK

- Worked in the BSKyB monitoring team and created monitoring reports and graphs using Angular 15, Highcharts, Underscore, NodeJS, JavaScript, MongoDB, Gulp, Jasmine, Unit Testing, AWS, App Dynamics, HTML5 & LESS.
- Developed an application that could be accessed from different devices like Microsoft Touch Screens, iPads, iPhones, and desktops.
- Collected data from multiple servers and displayed them in real-time on charts, allowing users to compare different data options, use auto-play mode, and benefit from double data encryption.
- Collaborated with business analysts, project managers, and other stakeholders to ensure that the application met the requirements and was delivered on time and within budget.
- Worked closely with other developers to identify and resolve technical issues and improve code quality.
- Conducted code reviews to maintain high standards of code quality and ensure adherence to best practices.
- Contributed to the overall digital transformation of Sky TV by delivering a robust and user-friendly monitoring application.

Senior Full Stack Developer

Publicis - Media Agency
📅 May 2014 - January 2015 📍 London, UK

- Created a feature-rich single-page application using Angular 15 and Java that pulled data from a MongoDB database.
- Developed the application to showcase various Allergan pharmaceutical products on an iPad, and designed it for use in 12 different countries.
- Worked closely with business analysts, project managers, and other stakeholders to ensure that the application met the requirements and was delivered on time and within budget.
- Collaborated with other developers to identify and resolve technical issues and improve code quality.
- Conducted code reviews to maintain high standards of code quality and ensure adherence to best practices.
- Contributed to the overall success of the Allergan project by delivering a robust and user-friendly application that met the needs of different markets.

Full Stack Developer

Pilat Media - Software Company
📅 July 2013 - May 2014 📍 London, UK

- Developed software solutions for Video on Demand, Catchup TV, and Live Streaming at Pilat Media.
- Created user-friendly widgets using JSON data and complex API calls to deliver the content to the user and admin interfaces.
- Utilized Java, Angular 15, Bootstrap, Zend Framework 2, JavaScript, HTML, and SASS in the development process.
- Implemented TDD methodologies using Jasmine to ensure high-quality code delivery.

Senior Front End Developer

The Daily Telegraph - Publisher
📅 December 2012 - July 2013 📍 London, UK

- Developed a dynamic map with filters and customizable search using Angular 15, MongoDB, and Google API as a JavaScript developer at Daily Telegraph.
- Utilized Angular 15 to build a robust client-side application that delivers high performance and interactive user experience.
- Integrated MongoDB database to store, organize, and retrieve geographic data efficiently.
- Implemented Google API to provide rich mapping capabilities including location search, markers, and overlays.
- Collaborated with cross-functional teams to deliver quality code and meet project timelines.

Senior Front End Developer

Flight Centre - Travel Agency
📅 January 2012 - December 2012 📍 London, UK

- Created HTML, CSS and JavaScript widgets for multiple websites as a developer at Flight Centre.
- Ensured cross-device compatibility by extensively testing the widgets on tablets and desktop computers.
- Collaborated with other developers and designers to ensure the widgets were in line with the website's overall design and functionality.
- Demonstrated proficiency in jQuery, a popular JavaScript library used for simplifying and standardizing code across multiple browsers.

Senior Front End Developer

Publicis - Digital Media Agency
📅 January 2011 - December 2011 📍 London, UK

- Developed website and banners for 4G UK mobile campaign for EE (joint venture between Orange & T-Mobile)
- Used Action Script 3.0, HTML&CSS, JavaScript, and jQuery to create engaging website and interactive user experiences
- Played a key role in analyzing and delivering one of the biggest campaigns in the UK in the last 10 years
- Worked closely with the team to ensure project was delivered on time and met client requirements.

MOST PROUD OF

🕒 **Simplicity**
Delivering clean and simple solution to complex problems.

📈 **Growing**
Growing and understanding businesses.

👤 **Inspiring**
Inspiring other people to become more productive.

✅ **Valid SC (Security Check)**

UK security for roles with sensitive data.

PROGRAMMING

JavaScript	●●●●●
Node	●●●●●
Python	●●●●●
HTML & CSS	●●●●●
MySQL	●●●●●
Java	●●●●●
PHP	●●●●●
.NET	●●●●●
Scala	●●●●●
C#	●●●●●
GoLang	●●●●●

FRAMEWORKS

ReactJS ReactJS Native GraphQL GraphQL Pandas Numpy Angular 15

VueJS Wordpress Zend Framework Scala Play Spring Hibernate

Light Stream Rabbit MQ

SOFTWARE & SERVICES

AWS Unix Linux Mac Windows Jenkins Bamboo GIT MongoDB

DynamoDB PostGres MySQL SQL Server Oracle Websockets FIX Api

Elastic Search

EDUCATION

B.S. in Economic Cybernetics, Statistics and Informatics

ASE University
📅 Sept 2007 - July 2011

PORTFOLIO

BitBucket [www.bitbucket.com](#)

Snow Bird [www.snowbird.com](#)

Big Fish [www.sofa.com](#)

Diva Shop [www.diva.net.au](#)

Royal Mail [www.royalmail.com](#)

Lois Jeans [www.loisjeans.com](#)

Flight Centre [www.gapyear.com](#)

[www.flightcentre.co.uk](#)

[www.roundtheworldexperts.co.uk](#)

Tyrrell Scrisps [www.tyrrellscrisps.com](#)

Dorset Cereals [www.dorsetcereals.co.uk](#)