

LUCAS FRANCO

Software Engineer

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EXPERIENCE

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 - Januari 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.

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

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 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**.