

Francesco Galassi

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Software Engineer with a first-class Computer Science degree from Newcastle University. More than three years of experience in healthcare sector projects, proficient in TypeScript, C#, React, Azure, and AWS currently working in fintech.

Key Competencies

AWS, Lambda, S3,
RDS, Aurora, Databricks
CloudFront, DynamoDB
Python, PySpark, SQL,

TypeScript, React
Azure, Cosmos DB, .NET
GraphQL, TypeGraphQL
Jest, TDD, Playwright

PHP, Laravel, SQL
Java, C#, C++, Unity3D
AR development, Jenkins
Docker, Android App, Bash

Work Experience

Accenture – Full Stack Engineer Specialist

Fintech (Finance services)

Leeds, 04/2025 – current

Development of innovative solutions for the Payment workstream, focusing on the creation of a new core payment banking system for a **leading UK bank**.

High-quality software solutions using **C#** and **.NET** technologies, leveraging **Azure** cloud services particularly Cosmos DB for scalable and efficient data management.

BJSS – Full Stack Engineer, Data Engineer

NHS Digital (Cohorting as a Service)

Leeds, 07/2024 – 04/2025

- Utilized **Python**, **SQL**, and **PySpark** in **Databricks** to process patient data, applying business logic for age, gender, and code-based cohort grouping.
- Configured vaccination campaign implementing **TypeScript**-based eligibility system with feature flags, interfacing with **DynamoDB** and **Redshift**.

NHS Digital (Cohorting as a Service)

05/2022 – 07/2024

- Developed a **React.JS serverless** web application for patient cohort identification using **AWS** services, integrating with client's **CI/CD**, logging, and monitoring tools.
- Implemented a **GraphQL API** with **PostgreSQL** database using **Prisma** and **TypeGraphQL** for cohort management.
- Set up and optimized **AWS RDS** and later transitioned to **serverless Aurora**.
- Developed front-end features using **Next.js** upgrading from version 12 to 14.
- Implemented authentication and authorization layers with **OAuth** + NHS CIS2 and set up **MTLS** between **AWS API Gateway** and NHS Azure API Manager.
- Integrated security measures: **OWASP ZAP** in CD pipeline, **gitleaks** for secret scanning.
- Implemented **DynamoDB** for session storage and utilized Amazon **EventBridge** for event-driven architectures.
- Set up and configured **CodeArtifact** for private package hosting and as a cached proxy for public repositories.
- Implemented and test automation using **Playwright** framework with **Allure** reporting for both API and UI tests.
- Integrated **Adobe Analytics**, configuring **Terraform**, **AWS SSM**, and environment settings for analytics capabilities.
- Optimized data retrieval with **S3 Select** for **Parquet** files implementing multi-cohorts.

NHS Digital (Population Health)**01/2022 – 05/2022**

- Enhanced pipeline reliability using **DynamoDB** locks; optimized **AWS** calls and **BrowserStack** runs.
- Improved security through **DAST** tests with **GitLab's OWASP ZAP**; implemented API killswitch functionality.
- Contributed to project maturity assessment; enforced code quality with **ESLint** and **Prettier**, optimizing dependencies.

NHS Digital (Risk Stratification)**10/2021 – 01/2022**

- Developed clinical apps using **Agile** methodologies (**Sprint, Kanban**), building a form-based web app with **Next.js** on **AWS** infrastructure.
- Enhanced Clinical Risk Assessment tool, integrating **Terraform** with frontend, extending **CloudWatch** dashboards, and implementing **AWS Geo IP** blocks.
- Improved testing processes by exporting **K6** results to static HTML and creating a test dashboard with **Next.js**.

Engineering Academy**09/2021 – 10/2021**

- Completed intensive **full-stack development** bootcamp, covering **front-end, back-end, cloud technologies (AWS, Azure), DevOps, Agile** methodologies, and emerging tech (**AI/ML, Big Data**), while honing soft skills through team projects and presentations.

Willis Towers Watson**Ipswich****Second Line Support Specialist****07/2019 – 01/2020****UC Communication Specialist****01/2020 – 07/2020**

- Provided 3rd line support with analytical problem-solving, performing Active Directory and Group Policy Management, while reviewing and managing changes to company OS image and applications

Red Frog Digital**Salford****AR Programming working experience****01/2016 – 02/2016****09/2016 – 09/2016**

- Developed Augmented Reality Apps using C# applied to Unity 3D.

Education**BSc (Hons) Computer Science (Game Engineering)****First Class with Honours****Newcastle University****2017 – 2021**

- Won prize for best **MongoDB** use in COVID hackathon, developing a social connection mobile app with **NativeScript**. Created innovative **cross-platform** solutions to address government-mandated physical distancing.

Skills:

- Full-stack development expert: **serverless architectures, cloud technologies (AWS, Azure), microservices, RESTful APIs**
- Front-end mastery: **React, Next.js, TypeScript**, responsive design, **state management, performance optimisation**
- Back-end expertise: **C#, .NET, Node.js, GraphQL, TypeGraphQL, API design**, database optimization (**Cosmos DB, PostgreSQL, MongoDB, DynamoDB, serverless Aurora, RDS**)
- Security implementation: **OAuth, MTLS, OWASP**, penetration testing, secure principles

References

References are available on request.