Sergio Sediq

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Education

Manchester Metropolitan University   Sep 2024 - Sep 2025
Master of Science in Computer Science   *GPA: 3.82*

Work Experience

The Co-operative Bank   Sep 2022 – Present
Technical Support Specialist   *Manchester, UK*
- Supported and monitored business-critical **enterprise production systems** in a regulated financial environment, supporting **reliability** and incident response; resolved **100+** incidents per month across **authentication**, **online banking**, and backend infrastructure
- Led incident triage, **root-cause analysis**, remediation, and post-incident reviews across distributed systems in an **Agile** context; collaborated with **backend engineers**, **vendors**, and platform teams to escalate, validate fixes, and restore reliability
- Managed account lifecycle and system state synchronization via **ITSM** tooling, reducing mean resolution time by **30%** and repeat incident rate by **25%** through runbook automation and security and compliance processes

Peltarion   Jan 2021 – Apr 2021
Software Engineer Intern   *London, UK*
- Owned end-to-end development of a production-grade service using **AWS CDK (TypeScript)** and **Java**-based **AWS Lambda** functions, automating manual campaign management and scaling to **6M+** emails/day
- Launched with **AWS CloudWatch** dashboards used daily by the Ring marketing team, cutting costs by **£8K+** monthly and saving **80+** hours of manual work each week
- Integrated with live systems processing **40M+** events/day by connecting **AWS SNS** and **SQS** to internal services and persisting artifacts in **AWS S3**, reducing campaign processing time by **23%**

Nomura   May 2020 – Sep 2020
Public Cloud Engineering Intern   *London, UK*
- Built **scalable**, **secure Azure infrastructure** using **Terraform** (**Infrastructure as Code**; resource groups, virtual networks, **NSGs**, Key Vault), reducing environment setup time by **40%** and standardizing **10+** workloads
- Built and maintained **CI/CD** pipelines with **GitHub Actions**, automating **Azure** deployment and **monitoring**; supported **platform reliability** and **observability**, reducing deployment time by **50%** and cutting release-related costs by **£1.5K** per quarter

Outlier   May 2019 – Sep 2019
Machine Learning Engineer Intern   *Remote*
- Built a **Python NLP** pipeline with **scikit-learn**, **spaCy**, and **NLTK**, then productionized it as a **Flask API** with **Redis** caching, cutting processing time from 5 to 3 minutes across **1,200+** requirements per month
- Engineered **BERT**-based dependency extraction for requirement lists, improving project planning efficiency by **37%**

Projects

On-Orbit Collision Predictor | *Source Code*   **Django** | **Next.js** | **MATLAB**
- Built a full-stack **ML-powered** satellite collision prediction system for space agencies, analysing CDM data and calculating orbital collision probabilities
- Developed with **Django** backend, **Next.js** frontend, and **MATLAB** for orbital mechanics, featuring 3D risk visualizations for orbital analysis

MyHealthPal | *Source Code*   **Next.js** | **Spring Boot** | **Flask**
- Built a full-stack **AI-powered** health companion for virtual care, providing personalised guidance and unified health insights across the platform
- Developed with **Next.js** frontend, **Spring Boot** backend, and **Flask**-based AI service, featuring seamless cross-service integration and **AI**-driven workflows

AI Studio | *Source Code*   **FastAPI** | **Vercel AI SDK** | **TypeScript**
- Built an **AI agent boilerplate** with **FastAPI** backend and **Vercel AI SDK**, enabling rapid development of LLM-powered applications
- Architected backend APIs for AI workflows, demonstrating production-ready patterns for integrating **LLMs** and **AI agents** into full-stack applications

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, Go, C, SQL, Bash, PowerShell, HTML5, CSS, Swift

Cloud & DevOps: Terraform, Jenkins, GitHub Actions, Harness, Docker, Kubernetes, AWS (EC2, S3, Lambda, EKS/ECS), Azure (AKS, Key Vault), GCP (BigQuery, Cloud Run), CloudWatch, Ansible, HashiCorp Vault

Developer Tools: Git, GitLab, Azure DevOps, Maven, Postman, Jira, PowerBI, PostgreSQL, Agile

Libraries/Frameworks: Spring Boot, Django, Flask, FastAPI, React, Next.js, Node.js