

# Daniel Rodrigues

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## EDUCATION

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### BSc (Hons) Computer Science | *First Class Honours*

Sep. 2020 – June 2024

Brunel University

London, United Kingdom

- **Relevant modules:** Algorithms and their Applications (A\*); Artificial Intelligence (A\*); Networks and Operating Systems (A\*); Software Engineering (A\*), Logic and Computation (A\*).
- Graduated at the **top of my class**, attaining a 98% overall GPA.

### UAL Extended Diploma in Creative Media Production and Technology | *Distinction*

Sep. 2018 – July 2020

Uxbridge College (HCUC)

London, United Kingdom

## WORK EXPERIENCE

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### Full Stack Software Engineer

July 2024 – Present

Nomura International plc

London, United Kingdom

- Increased the speed of message and event passing within our microservices by 70% by developing a message broker microservice in Java SpringBoot.
- The service delivers updates via websocket connections with read/write buffer queues, along with multithreading via the Executor Service package to achieve the speed increase.

### Full Stack Software Engineer Intern

June 2022 – June 2023

Nomura International plc

London, United Kingdom

- Led the development of a React.js Micro-frontend architecture for a new UI project.
- Decreased team's React development time by 50% by creating an optimized React component library.
- Developed an end-to-end fullstack login service using Spring Security, LDAP authentication, and React.
- Built a document retrieval backend API using Java Springboot, MySQL, and the MVC pattern.
- Mentored two inexperienced team members in JavaScript and React by hosting peer-programming sessions, reviewing their code and often suggesting optimisations.
- Automated the deployment of multiple projects by implementing a Jenkins CI/CD pipeline with Docker.
- Created a backend-for-frontend style Express.js server to handle serving microfrontends applications.

### Data Science Intern

June 2021 – July 2021

ICIS (LexisNexis Risk Solutions Group)

London, United Kingdom

- Worked on a Python web analytics project, involving 90 million rows of user-generated data.
- Carried out data preprocessing and modelling, and prepared visualisations as graphs and dashboards.

## PERSONAL PROJECTS

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### Order Book Application over UDP | C++

- Client/server application over UDP sockets to buy/sell mock market orders.
- Multithreading used to accept connections and print to std out. Measured throughput throughout.

## KEY SKILLS

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- **Languages / Scripting:** Java, Python, JavaScript, C++, HTML / CSS, Linux Bash / Shell
- **Libraries / Frameworks:** Java Spring, React.js, NodeJS, Express.js, Material UI, Sklearn, Pandas, NumPy
- **Software / Tools:** MySQL, Git, CI/CD (Jenkins, Kubernetes, GitLab CI), Containerization (Docker, Podman), Microservices, REST APIs, Micro-Frontends, Jupyter Notebook, Google Colab, Helm Charts

## HOBBIES AND INTERESTS

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Science-fiction novels; Digital illustration; Creative writing; AI & physics research; Space; Futurism, Finance.