

Ruben Joseph Lopes
Phone: +00 0000 00000
Email: jobs@rubenlopes.uk
LinkedIn: linkedin.com/in/ru4en
LinkedIn: linkedin.com/in/ru4en
GitHub: github.com/ru4en
Portfolio: www.rubenlopes.uk

Experience

Barclays

Multi-Cloud Engineering (Graduate Scheme)

August 2025 – Present

Currently, I am part of the Multi-Cloud Engineering team at Barclays, where I am involved in developing and maintaining cloud infrastructure and services. Besides cloud technologies, I also work on full stack internal tools primarily using Python (FastAPI), PostgreSQL, and HTMX. Besides this I also work on CI/CD pipelines using Jenkins and automation using Bash and Ansible. This role not only enhances my technical skills but also provides me with a comprehensive understanding of the financial sector.

- Experience with cloud platforms such as AWS, Azure, and GCP.
- Full stack development using Python (FastAPI), PostgreSQL, and HTMX.
- CI/CD pipelines using Jenkins and automation using Bash and Ansible.

HP Inc. - Wolf Security

DevOps Engineer (Industrial Placement)

July 2023 – June 2024

In my role as a DevOps Engineer during my industrial placement at HP, I actively utilised React (Typescript) to make UI, used Python with Django to create REST APIs, contributed to the development of internal tools, and scripted in Bash and PowerShell. I was responsible for setting up services for production within virtual environments and gained hands-on experience with cloud technologies like Docker and virtualisation. Additionally, I gained hands-on experience with the software development lifecycle by using tools such as Git and Jenkins for setting up CI/CD pipelines.

- Full stack development using Python (Django), PostgreSQL, MySQL, and building UI components using React.js and TypeScript.
- Hands-on experience with Linux (Debian-based), scripting in Python, PowerShell, and Bash.
- Developed Jenkins CI/CD pipelines using Groovy, Docker, GitHub, and Git.

University of Reading - IT

AV (Audio Visual) Assistant

November 2022 - June 2023

During my tenure as an AV Assistant at the University of Reading, I troubleshooted issues with Windows and audio-visual equipment. This experience enhanced both my technical skills and soft skills, particularly in effective communication and collaborative problem-solving.

- Troubleshooting Windows systems and audio-visual equipment.

UKRI - Science and Technology Facilities Council

Computational Scientist (Summer Placement)

June 2022 - September 2022

I worked on the Sasview project at STFC, automating and improving parts of the software, which allowed me to gain experience in C and Python. I collaborated with software engineers and scientists globally, improving my teamwork and communication skills. I implemented significant features such as UI tabs, batch calculating, 2D data slicing, and data noise reduction using SVD.

- Real-life experience programming in C and Python.
- Use of automated testing and version control (Git).
- Enhanced skills in planning, presenting, and documentation.

Education

University of Reading

Bachelor's in Computer Science

September 2021 - July 2025

Grade: First Class - 72%

Gained a strong foundation in computer science theory and practice, with extensive hands-on experience in full-stack development, data-driven systems, and cloud technologies. Completed a variety of projects, including a Final Year Project (Grade: 71), and developed skills in AI, machine learning, compilers, networking, image analysis, NLP, and both Java and Python development. Many projects are available on GitHub.

My final year project involved researching and developing a LLM router library in Python, which optimises the use of large language models by routing requests to the most suitable model based on the query. The project is available on GitHub: (llm-routers).

- Developed a LLM router library in Python to optimise the use of large language models.
- Gained experience with AI and machine learning concepts.
- Programming in Python, Java, C, and JavaScript.
- Full stack web development using React.js, HTML, CSS, SQL, and JavaScript.

New College Swindon

GCSEs and BTEC Computing

September 2017 - June 2021

GCSE (Maths, English, Physics, Chemistry and Biology) – Grades 4 - 6

BTEC Level 3 In Computing – Distinction Star, Distinction, Distinction (D*DD)

During my BTEC award in Computing, I undertook coursework which helped me enhance my writing, coding, and design abilities. My lecturers emphasised best practices, which improved the quality of my work.

- Using Databases and SQL Queries.
- The significance of cyber safety and security.
- Understanding of the Software Development Life Cycle.

Key Skills

- Proficiency in GNU/Linux, Windows Server.
- Experience with cloud platforms such as AWS, Azure, and GCP.
- Experience with CI/CD tools such as Jenkins and GitHub Actions.
- Experience with configuration management tools such as Ansible and Terraform.
- Full stack web development using React.js, HTML, CSS, SQL, and JavaScript.
- Programming in Java, C, C++, Go, and Python.
- Mathematical aptitude and problem-solving skills.
- Knowledge of virtualisation (Oracle Virtual Box, QEMU) and containerisation (Docker).
- Shell scripting in Bash, Python, PowerShell.
- Writing tests using Playwright and PyTest.

References available on request.