

Ruben Joseph Lopes

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Personal Statement

I am currently pursuing a Bachelor's degree in Computer Science and have valuable hands-on experience in Software Engineering and IT Operations. With a deep-rooted interest and passion for computers and technology, I aspire to pursue a career as a software developer. I enjoy acquiring new skills and applying interdisciplinary knowledge to my work where I can contribute to innovative projects and grow as a professional.

Experience

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 utilized 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 virtualization. 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 - Current (Expected to Graduate in July 2025)

First Year: Upper Second-Class – 68%

- Programming in C/C++: Enhanced skills in C/C++ and Linux commands and Git.
- Mathematics and Computation: Scored 85%, with significant application during my STFC placement.

Additional modules: Applications of Computer Science, Fundamentals of Computer Science, Software Engineering, and Student Enterprise.

Second Year: First Class – 72%

- Programming in Java: Designed interfaces and developed a dynamic Android application.
- Databases and Information Security: Conducted penetration testing, identified vulnerabilities, and organized security strategies.

Additional modules: Algorithms and Operating Systems, Compilers, Computer Architecture and Networking, Programming in Python for Data Science, Software System Design with UML, and Service-Oriented System Architecture.

New College Swindon

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 emphasized 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.
- 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 virtualization (Oracle Virtual Box, QEMU) and containerization (Docker).
- Shell scripting in Bash, Python, PowerShell.
- Experience with microcontrollers and electronics.
- Writing tests using Playwright and PyTest.

References available on request.