

Joseph Rose

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Personal Profile

A final year Bachelor's student at Queen Mary University of London, undertaking the Computer Science course. Alongside studying I like researching and experimenting with new technologies, and being a mentor for younger CS students in my role as a teaching assistant. I am seeking an opportunity to begin my career in software engineering with a role that will allow me to learn and develop a powerful technical skill set, and a deep understanding of computing and software.

Education

Queen Mary University of London

London, UK

BSc. Computer Science, First Class (Predicted)

Sep 2020 - Ongoing

- **Selected Courses:** Software Engineering, Computability, Complexity and Algorithms, Compilers, Neural Networks and Deep Learning

Work Experience

Queen Mary University of London

London, UK

Teaching Assistant

Sep 2022 - Ongoing

- Provided both academic and technical support to students learning Procedural Programming, ensuring that students receive the greatest possible benefit from attending these classes.
- Marked assessment submissions for Procedural Programming and Mathematics courses, allowing students to recognise their technical strengths, and where improvements can be made.
- Assessed code written by students during class time, and recommended changes where needed, thereby supporting the student's development as programmers. Collaborated with other teaching assistants to evenly distribute both support and assessment workload, allowing our team to complete our assigned tasks to a high standard.

Projects

Custom Functional Programming Language

Sep 2022 - Ongoing

- Final year project to design and implement a custom functional programming language.
- C++ will be utilised to implement a custom lexer, parser and compiler.
- Custom language will be compiled rather than interpreted, and will be open source.
- Detailed technical documentation will be produced alongside development.
- **Technologies:** C++, Git

Web Trends Predictor

Jan 2022 - Ongoing

- Python - based application that combines web scraping with machine learning to predict future search trends.
- Includes a graphical user interface rendered with the Tkinter library.
- **Technologies:** Python (BeautifulSoup, TensorFlow, Tkinter)

Candidate Assessment Platform

Jan 2022 - May 2022

- Collaborated with other developers to design and implement a web - based application for assessing potential job candidates for a financial services company.
- Utilised ReactJS to produce an intuitive and graphically engaging user interface.
- Implemented an application backend using JavaScript connected to a live database hosted on Google Firebase.
- **Technologies:** JavaScript (Node, React), Google Firebase

Skills

Programming	Java (JavaFX), Python (BeautifulSoup, TensorFlow), PHP, C/C++, HTML/CSS, JavaScript (Node, React), SQL, x86 Assembly
Miscellaneous	Software Design, Web Design and Hosting, Windows, Linux, Shell (Bash), Microsoft Office, Firebase, Git.
Soft Skills	Time and Resource Management, Effective Collaboration, Problem-solving, Documentation, Engaging Presentation.