

Roshan Gani Ganithi

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EDUCATION

University College London

BSc Computer Science

London, UK

September 2023 – June 2026

Sutton Grammar School

A Levels - Computer Science A*, Mathematics A*, Physics A*, Further Mathematics A

London, UK

September 2021 – June 2023

EXPERIENCE

Software Engineering Intern

CloudNC

April 2024

London, UK

- Worked alongside a team of software developers, adding features to the flagship product, CAMAssist
- Developed a series of end-to-end and unit tests using Kotlin to ensure functionality of various developing features
- Gained insight into software development team dynamics and collaboration, enhancing my teamwork and communication skills

Finance Intern

Union Bank of Switzerland

June 2022 - July 2022

London, UK

- Shadowed employees across various fields, gaining valuable industry knowledge and experience
- Developed an understanding of Quantitative Investment Solutions, Foreign Exchange, Global Markets, and Wealth Management, enhancing my financial acumen
- Learned to work both independently and collaboratively, improving my teamwork and self-management skills

Volunteer Programming Teacher

Sutton Central Library

Feb 2022 – April 2022

London, UK

- Taught a Python programming course at the local library over a 10-week period, empowering community members with coding skills and enhancing digital literacy
- Designed and delivered a course for beginners of all ages to learn Python
- Developed skills in presenting ideas, acting on criticism, and thinking proactively, leading to improved teaching effectiveness

PROJECTS

F1 Driver Identifier | Python, Flask, NumPy, pandas, Matplotlib, opencv, Git – [Github](#)

January 2025

- Developed a full-stack web application using Flask serving a REST API with React as the frontend that used Machine Learning to accurately identify Formula One Drivers
- Used pandas and Selenium to fetch images online to populate a dataset
- Utilised opencv/haarcascades to perform data cleaning
- Extracted facial features using wavelet transformations
- Used GridSearchCV to test multiple models and select that which had the highest accuracy

Student Grade Management | Java, Spring Boot, SQL, JPA, Maven, JaCoco, JUnit, Git

November 2024

- Developed a web application allowing colleges to efficiently manage their students' courses, grades, and attendance
- Developed a REST API using Spring Boot, enabling CRUD operations to manage records such as grades and modules
- Leveraged Maven to handle dependencies, JaCoCo to monitor test coverage, and JUnit to handle unit testing
- Collaborated using Git in a team-based environment, managing version control, maintaining a clean development workflow

Tetris Autoplayer | Python, Pygame

October 2022

- Developed a program using multiple self-designed algorithms to maximise scoring efficiency in Tetris
- Developed a heuristics-based algorithm based on research of scoring patterns.
- Cultivated collaboration and teamwork skills by soliciting feedback to enhance the autoplayer's performance.

SKILLS

Languages: Java, Python, Kotlin, SQL, Haskell, C++, C#, HTML/CSS

Frameworks: React, Node.js, Flask, JUnit

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jupyter Notebooks, Fusion360, Tableau

Libraries: pandas, NumPy, Matplotlib, Selenium, scikit-learn, opencv, PyWavelets, GridSearchCV, Pygame