lRoshan Gani Ganithi

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Summary

Aspiring Intern with substantial internship experience in Quality Assurance and insight across various fields from computer aided manufacturing to financial solutions. Studying Computer Science at UCL and adept with multiple programming languages including Java, Python, and SQL. Proven track record in teaching programming, showcasing strong communication, team collaboration, and problem-solving abilities. Looking to leverage academic knowledge and practical experience to contribute effectively to software development projects.

EDUCATION

University College London — **London, UK**

MEng Computer Science — *Expected Graduation, July 2026*

- **Related Coursework -** Systems Engineering, Software Engineering, Computer Architecture and Concurrency, Data Structures and Algorithms, Object Oriented Programming, Theory of Computation, Discrete Mathematics, Linear Algebra
- **Current Grade - 1:1**

Sutton Grammar School — **London, UK**

VI Form — *Graduated July 2023*

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

EXPERIENCE

CloudNC — **London, UK**

Quality Assurance Intern — *April 2024 - April 2024*

- Learned methodologies and processes for testing CAM software, ensuring reliability and performance, which improved understanding of quality assurance practices
- Gained insight into software development team dynamics and collaboration, enhancing my teamwork and communication skills
- Developed an understanding of designing and manufacturing products using Fusion360, which improved my technical skills in CAD software

Union Bank of Switzerland — **London, UK**

Finance Intern — *June 2022 - July 2022*

- 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

Sutton Central Library — **London, UK**

Volunteer Teacher — *Feb 2022 - April 2022*

- 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

Private Tutor — *Jan 2021– Present*

- Developed strong communication and interpersonal skills through one-on-one interaction with students.
- Enhanced problem-solving abilities by adapting teaching methods to suit individual learning styles and needs.
- Cultivated patience and empathy while guiding students through challenging concepts.

PROJECTS

Current Project - Formula One Circuit Identifier - Python

- Made use of Pandas and Selenium to automate the fetching of hundreds of images online
- Used machine learning tools to develop a program that would be able to classify new images using a known data set.

Gym Planner - Java

- Demonstrated expertise in algorithm design and optimisation through implementation of the Gale-Shapley algorithm for matching preferences efficiently.
- Developed an understanding of graph theory and its applications in real-world scenarios, such as resource allocation and scheduling.
- Acquired experience in software design principles and modular development, ensuring the scalability and maintainability of the gym timetable builder.
- Developed skills in database management, encompassing tasks such as querying, updating and optimising database performance.

Tetris Autoplayer - Python

- Mastered Python programming language, employing advanced concepts and libraries to develop a Tetris autoplayer with heuristic-based decision-making.
- Cultivated collaboration and teamwork skills by soliciting feedback and incorporating suggestions from peers to enhance the autoplayer's performance.

Algorithm Analysis - Python

- Implemented multiple convex hull algorithms (Jarvis March, Graham Scan, Chan) for the purpose of comparing their computational efficiency on various datasets
- Made use of data visualisation tools to graphically represent the convex hulls and benchmark results, enhancing the clarity of performance comparisons

SKILLS

Programming: Java, Python, Kotlin, SQL, Haskell, C, LaTeX
Tools: IntelliJ, Jupyter Notebooks, VSC, Git, Fusion360, Tableau, MatPlotLib, Selenium, Pandas
Certifications: IBM SkillsBuild - Getting Started with Data, Data Fundamentals, Artificial Intelligence Fundamentals