Hijithan Arunthavarajah

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RELEVANT EXPERIENCE

Software Engineer, HPE, Bristol/Remote, *July 2023–Present*

- Contributed to the development of industry-leading and next-generation storage products, focusing on feature development and bug fixes using C, C++, and Tcl.
- Developed numerous automation test scripts in Python and Perl to enhance the existing testing framework, improving test efficiency and reliability.
- Designed and implemented a debugging toolkit that consolidates crash logs, core dumps, and test scripts, significantly reducing debugging time.
- Investigated and resolved transmission errors occurring between storage devices, improving system stability and performance.

Teaching Assistant, Royal Holloway, Egham, *Sep 2024–Present*

- Serving as a Teaching Assistant for introductory and intermediate computer science courses, including Programming Laboratory (covering Python and Java fundamentals) and Software Engineering (focused on full-stack web application development using industry-standard workflows).
- Providing guidance to students on key software development concepts, including Test-Driven Development (TDD), CI/CD pipelines, Git, and design patterns, ensuring they build strong technical skills and a solid foundation in best practices.
- Assisting in lab sessions, troubleshooting code, and offering individualized support to enhance student understanding and problem-solving abilities.

EDUCATION

Royal Holloway, Computer Science Year in Industry, *Sep 2020-Present*

- **First Year**: On average got 85%, **Second Year**: On average got 89%

St Pauls Catholic College, GCSE and A-Levels, *Sep 2013-Aug 2020*

- **GCSE'S**: 8 GCSE's 4-7**A Levels**: Math - A, IT - Distinction*, Physics - B

PROJECTS

VS Code Theme Extension - Github, Marketplace

- Designed and developed a fully customizable Visual Studio Code theme, offering extensive flexibility for personalization.
- Implemented a sleek dark aesthetic with vibrant neon green highlights and high-contrast syntax coloring to enhance readability and coding experience.
- Published on the Visual Studio Code Marketplace using Microsoft Azure, making it accessible to developers worldwide.

Full Stack Restaurant Application - Github

- Developed a full-stack restaurant management web application to streamline operations, enabling order management, menu customization, and customer request handling.
- Integrated key features, including an admin dashboard, a chef interface for order processing, and a waiter interface for customer request management.

Lego Robotic Bunny - Github

- Engineered an interactive robotic bunny using LEGO bricks, LeJOS EV3 platform, and Java, as part of a university project.
- Collaborated with a team of four to design and develop a robot that simulates real-world animal behavior, including movement, environmental responsiveness, and interaction.
- Integrated multiple sensors for obstacle avoidance, sound recognition, and color-based navigation, enhancing autonomous decision-making capabilities.

VOLUNTEERING

- **Royal Holloway CS/Math Mentor:** I helped first year students with modules they found challenging in workshops.
- **First Lego League:** I helped develop/update software for the website the competition is held on.
- **Winterbourne Academy Mock Interviews:** Helped Year 11 students prepare for job interviews.
- **HPE Work Experience:** Spent a week being a mentor for students doing work experience at HPE.

SKILLS

- **Languages:** Python, C, C++, Java, Perl, HTML, CSS, Tcl
- **Tools and Technologies:** Git, VSCode, Eclipse, Vim, Unix/Linux, TMUX, Microsoft Azure, Kubernetes, Prometheus
- **Development and DevOps:** CI/CD, Jenkins, Scrum/Agile

AWARDS

- Achieved the Pastoral and Academic Excellence awards in my year group for **5 years** during GCSE/A Levels.