

EUGENE LIN

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EDUCATION

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|-------------|---|----------------|
| 2018 - 2022 | Imperial College London • Year 2: 85.4% overall (Dean's List), with first-class honours in all modules and 93% in lab projects • Year 1: 81% overall (Dean's List), with first-class honours in all modules and 85% in programming | MEng Computing |
| 2011 - 2018 | Dunraven School • A Level: A*A*A*A in Maths, Further Maths, Computer Science, and Physics | |

WORK EXPERIENCE

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|---------------------|---|-----------------------|
| Oct 2020 - Present | Undergraduate Teaching Assistant • Worked as a laboratory assistant to aid first-year undergraduates in weekly assignments • Provided me with valuable experience on understanding and debugging code written by others | Haskell, Kotlin, Java |
| Jun 2020 - Oct 2020 | Netcraft • Assisted in improving and automating client-facing fraud detection services written in Perl • Identified patterns in historic datasets to detect resurfacing phishing attacks • Deployed automated detection of money laundering recruitment across social media sites • Optimised performance of internal pages by identifying expensive and redundant processing | Perl, PHP, JavaScript |
| Jul 2019 - Aug 2019 | Fire Tech Camp • Worked as a Senior C#/Java/Python instructor, for groups of children aged 12 and up • Received consistent positive feedback for my hands-on teaching style | C#, Java, Python |

PROJECTS

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|-------------|--|-----------------------------|
| 2020 | Materialize • Utilised a research paper for background removal on a live webcam feed with OpenCV • Assisted with implementation of RESTful API with Pistache for control through an Electron UI • Implemented benchmarking suite for quantifying performance and quality metrics | C++, Kotlin, TypeScript |
| 2020 | EventKiwi • Cross-platform application, built with the PERN stack and deployed on Heroku , for tracking events • Started at Hack-a-project and iteratively designed with regular feedback from users and the RCA • Integrated with Azure for user authentication and AWS S3 for static resource hosting | TypeScript |
| 2020 | Optimising Compiler • Full WACC compiler including parsing, semantic analysis, code generation, and optimisation in SSA • Implemented a continuous integration pipeline with Docker and Kubernetes to automate testing • Extended the language to support OOP, libraries, type inference, and metaprogramming | Scala, ARM |
| 2019 | A Pigment of Your Imagination • Finalist for OxfordHack 2019 for the visuals and design category with a colouring book generator • Implemented edge detection algorithms for clustering with k -means and noise reduction • Assisted in integration of image processing in Kotlin with final Android application in Java | Java, Kotlin |
| 2018 | Untitled Game • Generated terrain with basic MST algorithms, and generated trees with a custom mesh builder • Enemies in the game gradually improved with the use of a genetic algorithm • Web interface for scores, as well as a custom library for low-latency IoT lighting over a LAN | C#, PHP, JavaScript, Python |
| 2016 - 2017 | Skype4Sharp • Only public .NET library for interacting with modern Skype chats (at the time) • Used in a publicly available Skype bot, with a reach of over 5,000 users at its peak • Designed an open-sourced Skype bot, featuring a plugin manager, and a permissions system | C# |

SKILLS & INTERESTS

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| Programming | Comfortable with Scala , Kotlin , C# (including Unity), PHP , Python , TypeScript , and Java . Also have various amounts of experience in other programming languages, including Haskell , Perl , C , C++ , and JavaScript . My public projects are available on GitHub. Also comfortable with markup languages such as LaTeX. |
| Linux | Proficient in using the Linux command line - including managing headless servers and networks. Experience working with LAMP stack. Able to use standard programming utilities such as version control, CI/CD , and containerisation. Comfortable with automating (and scripting) repetitive tasks. |
| Prototyping & Design | Explored different parts of prototyping, such as designing my own PCBs. Completed an additional course in prototyping at Imperial College London, which aided in developing my skills with electronics, as well as teaching me the basics of CAD . |
| Volunteering | Organised and ran events held by the Department of Computing Society at Imperial College London as an Events Officer. Lead a team of volunteers for the largest student-run hackathon in the UK (IC Hack). |