

EUGENE LIN

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EDUCATION

2018 - 2022	Imperial College London MEng Computing <ul style="list-style-type: none">Year 2: 85.4% overall (Dean's List), with first-class honours in all modules and 93% in lab projectsYear 1: 81% overall (Dean's List), with first-class honours in all modules and 85% in programming
2011 - 2018	Dunraven School <ul style="list-style-type: none">A Level: A*A*A*A in Maths, Further Maths, Computer Science, and Physics

WORK EXPERIENCE

2020	Netcraft Perl, PHP, JavaScript <ul style="list-style-type: none">Assisted in improving and automating client-facing fraud detection services written in PerlIdentified patterns in historic datasets to detect resurfacing phishing attacksDeployed automated detection of money laundering recruitment across social media sites
2019	Fire Tech Camp C#, Java, Python <ul style="list-style-type: none">Worked as a Senior C#/Java/Python instructor, for groups of children aged 12, and upReceived consistent positive feedback for my hands-on teaching styleProvided me with experience on debugging code written by others
2016 - 2019	Tutoring <ul style="list-style-type: none">Tutored children from Year 6 to Year 10, with a focus in mathematicsImproved communication skills, and practised how to explain challenging topics in simple terms
2017	Zodiac Media PHP <ul style="list-style-type: none">Assisted in updating a legacy e-commerce site running Magento (PHP)Heavy use of version control for deployment, and Vagrant for web development

PROJECTS

2020	EventKiwi TypeScript <ul style="list-style-type: none">Cross-platform application, built with the PERN stack and deployed on Heroku, for tracking eventsIteratively designed with regular feedback from users and the Royal College of ArtIntegrated with Azure for user authentication and AWS S3 for static resource hosting
2020	Optimising Compiler Scala, ARM <ul style="list-style-type: none">Full WACC compiler including parsing, semantic analysis, code generation, and optimisation in SSAImplemented a continuous integration pipeline with Docker and Kubernetes to automate testingExtended the language to support OOP, libraries, type inference, and metaprogramming
2019	ARM Project C, ARM <ul style="list-style-type: none">Implemented an assembler, and emulator for the ARMv6 instruction setDesigned custom PCB (with KiCAD), as well as the software interface for a bi-colour LED matrixAlso assisted in implementing the extension - a Monte-Carlo Tree Search to play Connect 4
2018	Untitled Game C#, PHP, JavaScript, Python <ul style="list-style-type: none">Generated terrain with basic MST algorithms, and generated trees with a custom mesh builderEnemies in the game gradually improved with the use of a genetic algorithmWeb interface for scores, as well as a custom library for low-latency IoT lighting over a LAN
2016 - 2017	Skype4Sharp C# <ul style="list-style-type: none">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 peakDesigned an open-sourced Skype bot, featuring a plugin manager, and a permissions system

SKILLS & INTERESTS

Programming	Comfortable with Scala , C# (including Unity), PHP , Python , TypeScript , and Java . Also have various amounts of experience in other programming languages, including Kotlin , Haskell , Perl , 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)