

EUGENE LIN

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EDUCATION

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

WORK EXPERIENCE

2019	Fire Tech Camp	
	<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	
2015 - 2018	Freelance Projects	
	<ul style="list-style-type: none">Occasionally took on clients for freelance workMet expectations of clients through consistent communication, and flexibility to suggestions	
2017	Zodiac Media	
	<ul style="list-style-type: none">Assisted in updating a legacy e-commerce site running <i>Magento</i> (PHP)Heavy use of version control for deployment, and <i>Vagrant</i> for web development	

PROJECTS

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 <i>Docker</i> and <i>Kubernetes</i> 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 <i>KiCAD</i>), 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	Yeetr (HackKing's 5.0)	PHP, JavaScript
	<ul style="list-style-type: none">Recreated Twitter for a 90's themed challengeLearnt to deploy through Git, and protect against common vulnerabilitiesImplemented PHP endpoints, as well as JavaScript (with <i>jQuery</i>) for dynamically displaying feed	
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, 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 / MERN 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. I also have some experience in <i>Photoshop</i> , <i>After Effects</i> , and <i>Cinema4D</i> .