



Thomas Chung



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Personal Statement

I'm a recent graduate of Edinburgh University with a Masters in Informatics with Honours. I've been programming for 7 years and have a strong background in Python development for processing intensive applications. In addition to my studies I've been developing my ability to integrate AI/ML into consumer services and build front-end applications through work with local startups.

I'm looking for a role in which I can develop professionally and provide a balanced perspective on state of the art topics.

Skills

- > **AI/ML:** TensorFlow, PyTorch, user facing AI tools
- > **Data Science:** Pandas, NumPy, data analysis, data visualisation, benchmark evaluation, public sector data
- > **Front-End:** JavaScript, Node.js, React, UI/UX design
- > **Programming:** Python, TypeScript, Haskell, C/C++
- > **Version Control:** Git, GitHub Actions

Experience

University

Masters project - visual music editing with CQ spectrograms

- > Demonstrated using a state of the art signal processing algorithm to render an editable spectrogram of a song in an ordinary image format.
- > Modernised a partially working 2013 python codebase and intensively reworked the numerical processing to be GPU compatible.

Python :: PyTorch :: CUDA :: GPU :: NumPy :: Signal Processing :: CQ Spectrograms

Binary Abacus - Interactive binary learning tool

- > Built a modern, interactive web application using React to help learners interact with binary numbers in a more meaningful way.
- > Implemented various encoding options and technical levels (unsigned/signed binary, IEEE 754, ASCII).
- > Designed with responsive layout and multiple interaction modes (keyboard/mouse) for accessibility.

Workout Mate - Gymnastics strength and conditioning app

- > As part of a redesign project for the Hevy workout app, I developed a web app which now is used to provide the Edinburgh University Gymnastics club's strength and conditioning programme.
- > Used React, Astro and Github Actions to create a web app to help the club members perform \ workouts.

Tenuto - Robot piano tutor

- > *73% Project mark*
- > Developed realtime hardware and control software for a robotic piano tutor.

- > Chief system architect in a team of 10 students.
- > Product demo rated best among 23 teams by technology and business experts.

High school

Scottish Baccalaureate in STEM - wireless communication using visible light

- > Highest Baccalaureate grade for the Angus district (2019).
- > Learned embedded programming, electronics, signal processing and telecommunications; developed a relay chat proof of concept in an independent research project.

Education

Edinburgh University - MInf (Hons) Informatics (2019-2025)

- > 2:1 (Masters Level)
- > 77% Masters Project mark
- > Consistent excellence in inventiveness, quality and documentation on programming coursework.

Functional Programming :: Object-oriented Programming :: Discrete Maths & Probability ::
Programming Language Design :: Algorithms & Data Structures :: Operating Systems ::
Linear Algebra :: Formal Logic :: Creative Coding for Music :: Datacentre computing ::
Computer Security :: Calculus :: Cognitive Science :: Robotics & Computer Vision ::
Microprocessor Architecture :: Numerical Optimisation :: Data Science & Statistics ::
Teaching :: UX Design

Arbroath High School (2013-2019)

- > Proxime Accessit 2018.

National 5: AAAAAB :: Higher: A*AAAA :: Scottish Baccalaureate: A

Employment

QuickWord - UX developer (May 2025 - Present)

AI scheduling app

- > Integrating AI backend into the user experience.
- > Developing bespoke elements for the user interface.

React :: Node.js :: Tailwind :: TypeScript

Inkwell PR - Firebase and React developer (Jan - Aug 2024)

Startup using AI to write press releases

- > Combining the GPT-3 model with expert curated prompts to create more effective press releases.
- > Implementing payment and subscription models.

React :: Firebase :: Stripe :: OpenAI

PlayerData - Firmware engineering intern (Jun - Sep 2023)

Wearable technology for team sports

- > Developed virtual driver testing framework for sports wearables using C/C++ on ARM Cortex-M microcontrollers.
- > Setup of driver code debugging on QEMU and the Zephyr device emulator framework.
- > Hardware emulation for deployment on Nordic SoC.

C :: C++ :: Zephyr :: QEMU :: Nordic SoC :: ARM Cortex-M :: JLink :: GDB :: Emulation ::

Testing

Gymnastics - Strength coach (Feb 2023 - Present)

University sports club

- > Organising and running a training programme.
- > Coaching and mentoring athletes.

Session planning :: Athlete preparation :: High performance sport

Other Jobs

 Edinburgh Fringe	 Costa Coffee	 Artisan Gelato	 Nairn's Oatcakes	 Grant Westfield	 Wetherspoons
2024	2022-2023	2021	2021	2021	2019-2020
Flyerer	Barista and till operator	Gelatier	Labourer	CNC operator	Porter and kitchen assistant

Community involvement

Scottish University Gymnastics League - Social Organiser (May 2025 - Present)

National sport development committee

- > Coordinating the social calendar for Scottish university competitions and training camps.
- > Working with clubs to develop adult gymnastics nationally.





Event planning :: Social development :: Community engagement

Edinburgh University - Gymnastics (2022-Present)

University sports club

- > **2022/23:** Social and Fundraising Officer
 - > Brought the social attendance from 5 to 30 per event.
 - > Coordinated fundraising for [SAMH](#) raising £1023.
- > **2023-Present:** Coach & sport specific training
 - > Men's artistic gymnastics coach.
 - > Developed the strength training programme.

Fundraising :: Coaching and mentoring :: Event organisation

 Hearts Innovation Centre	 Turing Festival	 First Lego League	 Scouts
2024	2024	2019-2020	2015-2019
<i>Code Club Mentor</i>	<i>Photographer</i>	<i>Mentor</i>	<i>Young Leader</i>
UK Citizen	UK Driving License		Immediate start