Thomas Chung

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Skills

> **AI/ML:** TensorFlow, PyTorch, LLM fine-tuning (LLaMa, Qwen, Phi), NLP frameworks, model evaluation, Application development using LLMs
> **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 pipeline with CQ spectrograms

> Demonstrated using advanced signal processing techniques to render an editable spectrogram of a song in an ordinary image format.
> Implemented a complete data pipeline for spectral analysis and reconstruction of the music source using PyTorch.

Edinburgh cycle share infrastructure analysis - data analysis and presentation

> Analysed usage trends from Edinburgh's cycle rental data during COVID-19 using Python data science packages.

Pandas : : NetworkX : : Matplotlib : : Seaborn : : Scipy : : Geopandas

LLM fine-tuning

> Fine-tuned LLaMa and Qwen to generate machine readable calendar invites from event descriptions like "next tue 2 til 4pm at the pub".

PyTorch : : LLaMa : : Qwen : : HuggingFace : : Unsloth

Metaheuristic optimisation algorithms using ML data processing

> Implemented classical optimisation algorithms using modern tensor code.
> Speed increase of 100x over the single threaded algorithms.
> Particle swarm optimiser and genetic algorithm puzzle solver.

TensorFlow

Tenuto - Robot piano tutor

> Developed realtime hardware and control software for a robotic piano tutor.
> Key player in a team of 10 students.
> Product demo rated best among 23 teams by technology and business experts.

🎮 Personal projects

Wireless measurement device for understanding impact forces on gymnasts

> Created a wearable harness with inertial measurement hardware, collected data over Bluetooth using Python API.

> Analysis and visualisation to gain insights into physical preparation.

🍎 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% Project mark (Masters Level)

> Merit (Masters Level)

> Consistent high marks for inventiveness, quality and documentation on programming projects.

Arbroath High School (2013-2019)

> Proxime Accessit 2018.

💼 Employment

📱 QuickWord - UX and frontend developer (May 2024 - Ongoing)

AI scheduling app

> Design the UX and integrate AI technology into the user workflow.
> Developed bespoke elements for the user interface.

React : : Node.js : : OpenAI

🖋️ Inkwell PR - Firebase and React developer (Jan 2024 - 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 (May 2023 - Ongoing)

University sports club

> Organising and running a training programme.

> Coaching and mentoring athletes.

Session planning : : Athlete preparation : : High performance sport

🎭 Edinburgh Fringe - Flyerer (Aug 2024)

Edinburgh Performing Arts Festival

> Promoting fringe shows in the city centre.

> Making ticket sales and creating positive interactions with the public.

Customer service : : Sales : : Public engagement

🗃 Other Jobs

☕ Costa Coffee	🍧 Artisan Gelato	🍪 Nairn's Oatcakes	🪚 Grant Westfield	🍴 Wetherspoons
2022 - 2023	2022	2021	2021	2018-2019
Barista and till operator	*Gelatier*	*Labourer*	*Beam saw operator*	*Porter and kitchen assistant*

🤝 Community involvement

🤸‍♂️ Gymnastics @ Edinburgh University

> Social and fundraising coordinator

> Men's artistic gymnastics coach
> Acrobatics display team 2022, 2023

Fundraising : : Coaching and mentoring : : Event organisation

❤️ Hearts Innovation Centre - Arcade Academy Mentor (Nov 2024)

Free coding club for children aged 6-10

> Mentoring children in game creation and programming.

Mentoring : : Inclusion

🤖 First Lego League - Mentor (2019-2020)

Robotics competition team

> Organising Arbroath High School's First Lego League team.
> Mentoring younger pupils about robotics and programming.

🎓 Scouts - Young Leader (2015-2019)

Scout group

> Organising and running weekly activities.
> Instructing skills such as outdoor skills, cooking and first aid.

UK Citizen	UK Driving License	Immediate start