Thomas Chung

tommo.page

m.me/tc.tommo

tommo@chung.scot

07483 215270

Profile

I'm a recent Informatics graduate with a strong foundation in AI, machine learning, and software engineering. Experienced in Python and LLM fine-tuning. I'm passionate about advancing trustworthy AI and eager to contribute to cutting-edge research. I work well in a team, am committed to learning quickly and upholding high standards of quality in both code and documentation.

Availability

> Immediate start.
> Flexible with working hours and location.
> UK citizen, Edinburgh based.

Technical Skills

> **AI/ML Tools:** TensorFlow, PyTorch, LLM fine-tuning (LLaMa, Qwen, Phi), computational pipelines, NLP frameworks, model evaluation
> **Data Science:** Pandas, NumPy, data analysis, data visualization, benchmark evaluation
> **Programming:** Python, JavaScript (React), TypeScript, Haskell, C/C++
> **Version Control:** Git, GitHub Actions
> **Research:** Technical report writing, fine-tuning, LLM application development
> **Other:** UI/UX, hardware integration, public sector data

Soft Skills

> **Teamwork:** Participated in diverse teams of, from university, industry, startups and extracurricular.

> **Communication:** Strong communication skills, able to communicate on technical and big picture levels.
> **Ethical commitment:** Strong commitment to ethical principles and social responsibility.
> **Problem-solving:** Experienced in autonomously developing and testing creative solutions.
> **Adaptability:** Eager to pick up new skills and technologies.

Experience & Projects

AI & Data Projects

Masters project - graphically editable music transformations

> Implemented advanced signal processing and ML compatible mathematical transforms (NSGT) to demonstrate a novel music editing workflow through spectrograms.
> Working with tensor computation in PyTorch for audio processing, focusing on laying out efficient and interpretable tensor code.

High performance metaheuristic algorithms using TensorFlow

> Used TensorFlow to implement metaheuristic algorithms (particle swarm optimiser, genetic algorithm) leveraging CUDA, with structured internal representations for algorithm state tracking.

Edinburgh cycle share scheme - data analysis and presentation

> Analysed and visualised public sector transport data using Python and data science packages, providing actionable insights during the COVID-19 pandemic.
> Developed comprehensive evaluation metrics and benchmarks for assessing data quality and model predictions.

Inkwell PR - GPT based press release generator

> Contributed to the development of a GPT based press release generator, refining the core service and integrating payment/subscription.

SendEvent app - NLP based events and invitations

> Used NLP tools to turn plain English phrases into structured, shareable iCal files.
> Experimented with fine-tuning LLaMa, Qwen and Gemini models to perform advanced phrase interpretation: "every second friday of june except 16th".

Hardware & Embedded Projects

Tenuto; Robot piano tutor

> Key player in a large team; product demo rated best among 23 teams by technology and business experts.

PlayerData - Full SoC emulation for driver code testing

> Developed virtual driver testing for sports wearables using C/C++ on ARM chips.
> Learnt about realtime and low power systems.

Scottish Baccalaureate in STEM - wireless communication using visible light

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

Education

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

> 2:1 at Honours level, final classification pending.
> **Autonomous research** - self-proposed masters project achieving a 76% mark at Honours level.
> **Python data science packages** (Introduction to Data Science) - extensive experience with evaluation frameworks and benchmark analysis.
> **Deploying a REST service with Azure** (Applied Cloud Programming) - practical experience with scalable model deployment.
> **Machine learning on Google Colab** (Machine Learning Practical) - hands-on experience with model training, fine-tuning, and performance evaluation.
> **Advanced coursework in AI reasoning and symbolic computation** - strong theoretical foundation in both neural and symbolic approaches to AI.

Arbroath High School (2013-2019)

> Proxime Accessit 2018.

💼 Employment

🧑‍💼 Inkwell PR - Full stack developer (Dec 2023 - Aug 2024)

⚽ PlayerData - Firmware engineering intern (Jun - Sep 2023)

Other Experience

☕ Costa (2022-2023)	🍨 Artisan Gelato (2022)	🍪 Nairn's Oatcakes (2021)	🏭 Grant Westfield (2021)	🍴 Wetherspoons (2018-2019)

🤝 Voluntary & Non-technical Roles

🤸‍♂️ Edinburgh University Gymnastics Club

Social and fundraising coordinator

> Promoted events on social media and in person, increasing social attendance from 5 to 20+ people after the pandemic.
> Planned and organised social activities and fundraising initiatives, collaborating with other sports clubs.
> Worked as a team with committee, coaches, and club members.

Strength and conditioning coach

> Organising and leading a training programme, collaborating with athletes and coaches to achieve performance goals.