Gregory Taylor

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Skills

- Professional-level skills in Python, Rust, Javascript, C/C++, and Java.
- AWS, GCP, Containers, Kubernetes to orchestrate GPU clusters.
- Machine Learning, AI architecture, dataset labelling, training, and fine-tuning.
- DevSecOps, CI/CD, git management, self-hosted git servers.

Education

University of Technology, Sydney | Bachelor of Computer Science
Final year Computer Science student with Honours in Data Analytics and AI
*Graduating **November 2025** with Dean's Outstanding Academic Achievement Award*

AI Hackathon: First Place
July 2025, UTS Techfest with Chaos1 & Battlelabs

- 1st place winner of AI programming competition with over 100 participants over the course of 2 days.
- Collaborated with the Australian Military to develop SOTA techniques in intelligence gathering using AI.
- Presented findings to a panel of experts, including live demos.
- Deployment on compute limited environment (JetsonNano) for offline utilisation.

Experience (my latest work)

NuclearSmoke - Smoke Forecasting in NSW
- Developed a high-performance smoke forecasting tool for NSW using Rust and WebAssembly to ensure efficient computation and deployment.
- Designed a streamlined, user-focused frontend, prioritizing speed and clarity for seamless real-time access to critical environmental data.

AutoInt - Automatic News Headline Detection
- Utilized asynchronous Rust functions to streamline data ingestion and processing, reducing latency for real-time headline updates across diverse sources.
- Custom clustering algorithm to identify and classify popular topics, as well as developing the fastest word embedding library in Rust to maximise throughput.

OpenLoRa - Chirp Spread Spectrum Modulation in Python
- Pioneered the first Python implementation of LoRa chirp spread spectrum modulation, enabling accessible prototyping for low-power IoT communication.
- Built a resilient modulation algorithm optimised for noisy environments, incorporating all required specifications such as preambles, CRC bit redundancy, & FFT-based correlation and symbol detection.