Elliot Tuckerman

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FAANG-experienced AI & Software Engineer specialising in LLM security and scalable systems.

SKILLS

- **Languages:** Python, C++, C#, SQL
- **Technologies:** NLP (spaCy, BERT, NLTK), Multi-GPU Training, Model Optimization
- **Tools:** TensorFlow, PyTorch, Hugging Face, Scikit-learn, XGBoost, AWS, Git, Jupyter
- **Practices:** TDD, OOD, Version Control, Agile

EDUCATION

- **Sheffield Hallam University** — Sheffield, UK
  BSc in Computer Science; GPA: 4.0 — *2020 – 2024*
  - **Specialization**: Machine Learning and Heuristics
  - **Additional Coursework**: CS50's AI with Python (Harvard, edX), NLP with Transformers (Hugging Face)

EXPERIENCE

- **META** — Atlanta, GA, USA
  Gen AI Contractor, Security Delivery Management Team — *2025 – 2026*
  - **Prompt Injection Mitigation**: Labeled and analyzed GenAI outputs to detect and prevent prompt injection attacks in UI-interacting agents.
  - **LLM Behavior Evaluation**: Tested agent behavior and safety within simulated environments, contributing to alignment and robustness efforts.
  - **Synthetic Data Generation**: Triggered high-stakes agent actions and exported traces for manual annotation, producing high-quality fine-tuning data.
  - **MLE Collaboration**: Led discussions with ML engineers to improve synthetic data generation and evaluation refinement.
  - **Secure AI Operations**: Collaborated with AI and security teams to support safe deployment of foundation models.

- **SPRK** — Tampa, FL, USA
  Machine Learning Engineer, Prompt Engineer — *2024 – 2025*
  - **Data Parsing & Extraction**: Built scalable parsing tools using LlamaParse to extract imagery and tabular content from academic documents.
  - **Structured Data Pipeline**: Used Qwen2.5-72B-Instruct to transform raw data into structured JSON for academic applications.
  - **Multimodal RAG System**: Developed math-solving and scheduling chatbot systems integrating image parsing and agent workflows.
  - **Advanced Prompt Engineering**: Researched and benchmarked state-of-the-art models to optimize performance.

- **DataAnnotation.tech** — Atlanta, GA, USA
  Machine Learning Engineer, LLM Optimization — *2023 – 2024*
  - **Code Evaluation**: Validated outputs from large language models.
  - **Optimization**: Enhanced generated code for performance and correctness.
  - **Model Supervision**: Monitored and guided in-development model performance.

PROJECTS

- **Llama 3.1 QA Fine-tune**: Fine-tuned LLaMA 3.1 with TensorFlow using a custom dataset to improve domain-specific QA performance.
- **Multilingual Speech Application**: Built a real-time multilingual speech system using MMS-TTS with queue-based translation and live audio output.
- **Multi-GPU LLM Fine-Tuning**: Implemented distributed training in PyTorch to scale large language model optimization.
- **Vehicle Theft Analysis**: Developed predictive models using Python and Scikit-learn to extract insights from crime datasets.