

Sin Liang Lee

Atlanta, GA | (404) 784-5799 | sinlianglee@outlook.com | linkedin.com/in/sin-liang-lee | sllee.me

Education

Georgia Institute of Technology | Atlanta, Georgia

Bachelor of Science in Computer Science | Concentration: Intelligence and Devices

May 2028

GPA: 4.0

Technical Skills

Computing Languages and Technologies: Python, JavaScript, Java, GD Script, C, Unix, AWS, GCP, Git, CI/CD

ML & AI: PyTorch, TensorFlow, OpenCV, LangChain, HuggingFace, NumPy, Pandas, ONNX, RAG, VectorDB, NLP

Experience

Systems Software & Security Lab (Georgia Tech)

October 2025 – Present

Undergraduate Researcher (Professor Taesoo Kim, Microsoft VP of Security Research)

Atlanta, USA

- Engineered **LLM-driven automated security testing framework** with automatic bug patching that treats shallow vulnerabilities as coverage signals to unlock deeper execution paths and enhance threat discovery efficiency
- Analysed and deployed DARPA's AI competition winner ATLANTIS, researching **multi-agent AI frameworks** for autonomous vulnerability discovery and cyber reasoning systems to inform next-generation security testing methodologies
- Identified and reported **11 security vulnerabilities** and **expanded Google's open-source testing coverage** by building refined harnesses into Google's framework and deploying ATLANTIS system for vulnerability discovery

Byte In (Gamified AI Calorie Tracking Startup)

Jan 2025 – August 2025

Co-Founder

Kuala Lumpur, Malaysia

- Engineered an end-to-end Machine Learning pipeline with custom Computer Vision models and an A/B testing framework, achieving **98%** accuracy on food recognition (**23%** increase from baseline) and serving **1000+** daily inferences.
- Architected the API production backend (Python, Django, PostgreSQL) and the ML pipeline (PyTorch to ONNX) for training and low-latency model serving via a versioned API. Deployed the server in a Linux environment (Ubuntu).
- Secured **\$23K** funding from Cradle Fund (under Malaysia Ministry of Finance) through a competitive grant process.
- Led product roadmap from prototype to production, partnering with cross-functional teams (Product Design and Finance team) to deliver a budget-aligned product and achieved four milestones three months early.

University Malaya

June 2024 – Jan 2025

AI Intern

Kuala Lumpur, Malaysia

- Deployed production LLM system aimed on **30,000+** users with RAG pipeline, vector database integration, and advanced prompt engineering, automating Q&A, course registration and scheduling.
- Built scalable multi-agent architecture with intent routing, tools, and guardrails to orchestrate user requests.
- Developed full-stack app: Django REST API, PostgreSQL, and LangChain for backend; React, Typescript for frontend.

Omdena

June 2023 – August 2023

Junior Machine Learning Engineer

Remote (Based in NYC)

- Led** Model Evaluation Team; built reproducible benchmark pipeline across **10+** classical ML and transformer model.
- Co-authored project's paper, invited to present at **NeurIPS 2023** (NAML workshop); paper cited in **6** publications.
- Partnered with Data Engineering and Model Development Team to define KPIs and standardize preprocessing.
- Developed a reproducible benchmark across 10 architectures and proposed + fine-tuned two multilingual models.

Projects

microGPT | Python, PyTorch

May 2023

- Designed and open-sourced microGPT (**56+** GitHub Stars, **13** Forks) from scratch in PyTorch—an 82M-parameter GPT with a full train/infer pipeline (custom tokenizer + dataset prep + top-k/top-p/temperature sampling).
- Optimized for edge deployment, CPU-only inferences, thus reducing cloud costs for small-scale applications.

Awards

Best Use of Gemini API (First Place) – Major League Hacking, HackGT 12, Energy Hacks

September 2025

15K USD Prize @ AI Track (Third Place) – Solana Foundation, Solana Global Web 3 Hackathon

October 2023

Additional Skills and Interests

Languages: English (fluent), Chinese (native), Malay (fluent), Cantonese (fluent)