Calvin Huang

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EDUCATION

Georgia Institute of Technology | *B.S. Computer Science* | Atlanta, GA   **Expected May 2026**
- **GPA**: 4.00
- **Coursework**: Data Structures & Algorithms, Object-Oriented Programming, Objects & Design, Linear Algebra

WORK EXPERIENCE

OKSI | *Software Engineer Intern* | Torrance, CA   **Apr 2024 - Present**
Prospero Team:
- Designed an LLM-backed assistant for filling SCIF forms by integrating RAG with LLaMA-3, increasing accuracy by 53%.
- Enabled model queries through the cloud with NATs, Protobuffs and Synadia for 2 contractors to power a chatbot.

TASER Team:
- Built a model training data pipeline with HuggingFace, Whisper and LLaMA-3 for EDGE automatic speech recognition.
- Synthesized 9k speech data with GPT-4 and Tortoise, augmented with radio noise and validated via a regex pipeline.
- Fine-tuned Whisper Large-V3 with QLoRA on synthesized data, achieving 9% word-error rate and 48% faster inference.
- Configured PostgreSQL vector database with pgvector for RAG; fine-tuned LLaMA with Unsloth (LoRA): F1 of 83 on DGX.
- Optimized deployment on an NVIDIA Jetson Orin using Docker, ONNX, and TensorRT for 34% faster inference.

Jane Street Capital | *First-Year Trading and Technology Program Intern* | New York City**,** NY   **Mar 2024 - Mar 2024**
- 1 of 100 undergrads selected to learn about Jane Street's trading models through classes, games, and simulations.
- Developed a Python trading bot with socket programming for exchange connectivity via WebSocket and REST APIs.
- Utilized market-making and arbitrage strategies to exploit market inefficiencies for Bonds, ADRs and ETFs.

GaTech Efficient and Intelligent Computing Lab | *Machine Learning Intern* | Atlanta, GA   **Sep 2023 - Present**
- Optimized custom GraphSAGE models using PyTorch and DGL, enhancing GNN node classification accuracy by up to 5%.
- Designed novel dropout strategies including an MLP neighbor ensemble with noise injection for feature aggregation.
- Developed training pipelines for tuning with Optuna and distributed training with CUDA, reducing training time by 40%.
- Youngest applicant admitted in Georgia Tech history.

Park Lab | *Data Science Intern* | Irvine, CA   **Aug 2022 - Sep 2023**
- Analyzed relationships between glyphosate/AMPA exposure, blood levels of sex hormones and c-reactive proteins.
- Developed tables with R and ran multivariate analysis between hormone data and glyphosate/AMPA levels.
- Streamlined raw data into a master document, reducing data retrieval time by 300% and optimizing data accessibility.

SoftCom Lab | *Software Engineer Intern* | Pomona, CA   **Apr 2023 - July 2023**
- Migrated a training pipeline from a Keras-based model to a no-code solution for fine-tuning YOLOv5 on custom data.
- Built a full-stack app with Next.js and MySQL for users to store custom models, upload datasets, and run inference.
- Bundled operations—from uploading data to fine-tuning—into APIs with Flask, REST and AWS EC2 for deployment.
- Published research at the International Conference of Data Science and Machine Learning. Received provisional patent.

PROJECTS

ScribeAI | *CEO, Co-Founder* | Atlanta, GA   **Oct 2023 - Present**
- Built a HIPAA-compliant platform with React that converts physical health records to encrypted electronic records.
- Integrated Tesseract and GPT-3.5 with Node.js, applying OCR and text formatting on records stored with PostgreSQL.
- Implemented horizontal scalability with Spring Boot microservices, Spring Cloud load balancers, and Kubernetes.

SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, Golang, SQL, R, Dart
Frameworks: PyTorch, Tensorflow, Keras, scikit-learn, NumPy, pandas, Flask, Django, React.js, Angular, PHP
Technologies/Misc: Gitlab, Agile, MongoDB, MySQL, PostgreSQL, AWS, Docker, Kubernetes, Spring, Node.js, NATs

HONORS

Olympiads: USACO Platinum, Google FooBar Perfect Score, 3x AIME Contestant, 1st Place in Algorithms @ IgniteCS Expo.
1st Place Overall @ HackGT Georgia Tech's premier hackathon. $4.5k cash award. Most competitive hackathon in the South.
Eagle Scout demonstrated exceptional leadership through service. One of 4% of all boy scouts to achieve Eagle Rank.