Calvin Huang

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EDUCATION

Georgia Institute of Technology | *B.S. Computer Science* | Atlanta, GA   **Expected Graduation: May 2026**
- **GPA**: 4.0/4.0
- **Coursework**: Artificial Intelligence, Computer Organization and Programming, Design and Analysis of Algorithms, Data Structures and Algorithms, Objects and Design, Multivariable Calculus, Object-Oriented Programming, Linear Algebra

WORK EXPERIENCE

Coinbase | *Incoming Software Engineer Intern* | San Francisco, CA   **Dec 2024 - Present**
- Incoming on Platforms Team, Backend for Summer 2025.

OKSI | *Software Engineer Intern* | Torrance, CA   **Apr 2024 - Present**
- Designed LLM-backed assistant with RAG, AWQ and LLaMA for filling accreditation forms, improving accuracy by 53%.
- Implemented a training pipeline optimized for EDGE automatic speech recognition on tactical voice commands.
- Fine-tuned Whisper Large-V3 with LoRA on LiveATC data, achieving 9% word-error rate and 48% faster inference.
- Configured microservices architecture using Go, gRPC, Docker Compose, and Protobuffs, utilizing PostgreSQL vector database for RAG, Whisper for transcription, and a fine-tuned LLaMA model using Unsloth (LoRA).

Jane Street Capital | *FTTP 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**
- Built 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 pipelines for tuning with Optuna and distributed training with CUDA, reducing training time by 40%.
- Youngest intern ever 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, optimizing data accessibility

SoftCom Lab | *Software Engineer Intern* | Pomona, CA   **Apr 2023 - July 2023**
- Built two training pipelines for a custom CNN image classification model and a custom YOLOv5 object detection model.
- Developed React tool with Flask, MySQL, REST APIs, and AWS EC2 allowing researchers to train models without coding.
- 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 with Node.js, applying OCR, text formatting, and regex on records stored with PostgreSQL.
- Implemented horizontal scalability with Spring Boot microservices, Spring Cloud load balancers, and Kubernetes.

SKILLS

Programming Languages: Go, Python, C, C++, Java, JavaScript, SQL, R, Dart
Frameworks: PyTorch, Tensorflow, Keras, scikit-learn, NumPy, pandas, Flask, Django, React.js
Technologies/Misc: GitHub, CUDA, MongoDB, MySQL, PostgreSQL, AWS, Docker, Kubernetes, Spring, Node.js, Linux

HONORS

USA Computing Olympiad (USACO) Platinum Division Achieved highest US National Division in the Computing Olympiad.
3x American Invitational Mathematics Exam Contestant Achieved top 1% nationally in competitive mathematics.
1st Place Overall @ HackGT Georgia Tech's premier hackathon. $4.5k cash award. Most competitive hackathon in the South.
2024 Citadel Summer Invitational Datathon 1 of ~100 selected to compete in the annual Summer Invitational Datathon.
D.E Shaw CONNECT Participant Invited to D.E Shaw's annual CONNECT event in NYC.