

Eric Li

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Education

Texas A&M University

BS in Computer Science; Minor in Philosophy, Mathematics

May 2027

GPA: 4.0/4.0

- **Selected Coursework:** Distributed Systems, Operating Systems, Fourier Analysis, Quantum Math, ML
- Goldman Sachs Endowed Scholar, Kleiner Perkins Engineering Fellow, President's Endowed Scholar, CS Honors

Experience

Amazon

Software Developer Intern

Jun 2025 – Sep 2025

Seattle, WA

- Engineered a Spark ETL pipeline for ad pricing and ML model telemetry, implementing a custom AWS SDK sideload mechanism to handle data sparsity, eliminating 12 hours of weekly manual incident diagnosis
- Architected data sharing infrastructure using AWS Lambda and S3 to provision 1 billion rows daily to Pinterest
- Implemented real-time currency conversion service in Java Spring Boot, handling ad registration across 3 markets

HQS Automotive

Software Engineer Intern

Dec 2023 – Sep 2024

Detroit, MI

- Cut schedule creation from 8 hours to 1 hour by implementing auto shift assignment with linear programming
- Replaced Excel with a React dashboard used by 1,000+ employees for scheduling and shift management

Leadership and Research

TAMUhack

Technical Lead

Jan 2024 – Present

College Station, TX

- Designed concurrent judging engine using semaphores for assignment and Elo rating for score normalization
- Led 5-engineer team migrating legacy Django 2.x to 5.x and deploying fullstack services serving 10,000+ visitors

DIVE (Data Integration, Visualization, and Exploration) Lab

Machine Learning Researcher

Aug 2024 – Present

College Station, TX

- Co-first author (arXiv:2502.12521): Benchmarked inference latency of 4 reasoning techniques across 10 datasets.
- Contributing author (arXiv:2506.06632; ICLR 2026): Improved Qwen-1.5B accuracy 12% via Curriculum RL.

Projects

Expected Value Engine | Python, AsyncIO, Pydantic

- Built platform achieving 15% annual returns by identifying +EV opportunities across 14+ player prop markets
- Implemented power-method devigging with binary search to derive true probabilities from bookmaker odds
- Designed async architecture with multi-source consensus logic and Kelly Criterion bet sizing for risk management

Tritone | FastAPI, WebSocket, C, React, OpenAI Whisper, ESP32

- Built app for real-time sound localization and transcription to assist hard-of-hearing individuals using an ESP32 connected to a FastAPI and React app
- Implemented a C algorithm for real-time trilateration, detecting a speaker's angle from 3 microphone sensors

MQTT Broker | C

- Engineered broker for IoT devices achieving competitive performance with production systems
- Achieved throughput of 200k messages/second across 1,000 simultaneous client connections using epoll-based I/O

Skills

Languages: JavaScript, Java, Typescript, Python, SQL, Scala, C++, C, HTML, CSS, Shell

Frameworks/Libraries: React, Express, FastAPI, Spring Boot, PyTorch, Pandas, Jest, Playwright

Tools: Git, Linux, PostgreSQL, AWS, Docker, Spark, MongoDB