

EVAN LIU

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EDUCATION

University of Maryland, College Park

B.S. Computer Science

GPA: 3.74/4.0 - Gemstone Honors Program

Aug 2022 - Dec 2025

College Park, MD

Relevant Coursework: Object Oriented Programming 1 & 2, Systems, Discrete Structures, Algorithms, Network Security, Web App Development, Advanced Data Structures, Parallel Processing, Android Development, Artificial Intelligence, & Data Science.

SKILLS

- **Programming Languages:** Python, Java, C, C++, JavaScript, SQL, Kotlin, Go, R
- **Frameworks & Libraries:** PyTorch, TensorFlow, React, Node.js, FastAPI, Flask, Spring Boot, CUDA
- **Platform & DevOps:** AWS, Docker, Kubernetes, Git, GitLab CI/CD, PostgreSQL, RESTful APIs
- **Quality & Practices:** Unit/Integration Testing, Code Review, Agile/Scrum

EXPERIENCE

Parsons Corporation | *AI Fullstack Engineer Intern*

Aberdeen Proving Ground, MD | Jun 2025 - Aug 2025

- Designed a domain-agnostic reinforcement learning framework for training AI agents.
 - Built an AlphaZero-style self-play infrastructure in PyTorch/TensorFlow combining Monte Carlo Tree Search with Residual Neural Networks for scalable policy learning.
 - Optimized the AI training pipeline through tree reuse, CUDA-based multiprocessing, state hashing, and caching, reducing overall training time by more than 10×.
 - Delivered a production-ready Flask web service with REST APIs, containerized via Docker and deployed on GPU-enabled Kubernetes clusters through GitLab CI/CD in an Agile workflow.

National Institute of Standards and Technology | *Software Development Intern*

Gaithersburg, MD | Jun 2024 - Aug 2024

- Developed a nanometer-scale bioparticle measurement system in Python/C++.
 - Integrated Prophesee event-based camera output and ML classification, improving analysis throughput by 25% with automated feature extraction.
 - Exposed results via RESTful APIs and React dashboards for real-time visualization, improving researcher workflow and data accessibility.

Gemstone Honors College | *Research Lead*

College Park, MD | Apr 2023 - Present

- Lead research on an AI-driven nanoparticle drug-conjugate system with microfluidic technologies.
 - Investigated natural vesicle formation as an alternative to antibody-drug conjugates, improving targeting efficiency.
 - Applied AI-based molecular dynamics simulations to investigate protein flexibility, informing drug design and efficacy optimization.

Food and Drug Administration | *Data Science Intern*

Silver Spring, MD | Jun 2021 - Sep 2021

- Built SQL-centric data pipelines and dashboards that streamlined drug review analytics and stakeholder reporting.
 - Authored technical documentation to support reproducibility and handoffs.

PROJECTS

Stocker | *AI Stock Sentiment Analysis App*

Jul 2025 - Aug 2025

- Built a real-time stock research web app that aggregates news, social chatter, and price signals to generate sentiment scores per ticker and translate them into portfolio-level insights and alerts.
 - Leveraged Groq-hosted LLMs to power real-time news summaries and analysis.
 - Optimized API and inference paths with streaming responses, batching, and caching, delivering fast time-to-first-token and smooth scaling under bursty market events.
 - Stack: React, Flask, Node.js, PostgreSQL, Kubernetes, Yahoo Finance API.

Track.ai | *Health and Fitness App*

Dec 2023 - Feb 2024

- Built React + FastAPI web app for user activity tracking and ML-driven fitness recommendations.
 - Built activity and progress visualization APIs (timeseries, aggregations, goal streaks) with server-side pagination and caching, improving data load times by 30–50%
 - Integrated Huggingface BERT model for natural language analysis of activity data.