

Aimee Oh

New York, NY

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EDUCATION

Columbia University, *M.S in Computer Science*

Expected Dec 2025

Columbia University, *B.A. in Computer Science, Concentration in Statistics*

May 2024

Courses: Applied ML, NLP, UI/UX, GenAI Design, AI, Agentic Systems, Cloud Computing, Computer Vision

TECHNICAL SKILLS

Languages & Frameworks: Python, TypeScript/JavaScript, R, Java, C, Elixir, SQL (Postgres/MySQL), Next.js, Flask, Phoenix LiveView, Ruby on Rails, HTML/CSS, Figma, LaTeX, React

Tools & Platforms: AWS, Docker, OpenAPI, Git, GAE, GCP, Heroku, Jira

PROFESSIONAL EXPERIENCE

Crackd.ai

New York, NY

Founding Software Engineer

May 2025 – Present

- Developed and deployed AI-based prompt evaluation tool using Next.js, TypeScript, and JavaScript, establishing core infrastructure used to iteratively tune culturally aware image captions and drive 33% improvement in humorous caption recognition and generation.
- Engineered production-ready frontend and backend with SST, Supabase, and AWS, supporting image uploads and model-specific integration while creating the foundational architecture that accelerated discovery of key improvement areas across Crackd.ai's product suite.

Columbia University

New York, NY

Course Assistant for Engineering Software-as-a-Service

Sep 2025 – Present

- Leading office hours for 120 students and guiding 7 project teams through semester-long SaaS development, mentoring on agile practices, dev/ops tooling, and full-stack implementation.

Course Assistant for UI Design

Jan 2025 – Jun 2025

- Mentored 600+ students by leading office hours while providing weekly feedback sessions for 25+ students on semester-long projects, covering full-stack development, Agile practices, and UI/UX design to strengthen technical skills and project outcomes.

Semsee

New York, NY

Backend Engineer Intern

Jun 2023 – Aug 2023

- Engineered a production-ready internal semantic search classification system in Elixir/Phoenix LiveView, integrating OpenAI vector embeddings to boost insurance plan matching accuracy by 15%.
- Developed and deployed a full-stack recommendation engine with PostgreSQL and Elixir, leveraging semantic search pipeline to reduce user drop-off by 12.3%.
- Refactored and modernized legacy internal tools into an extensible service layer, driving 30% improvement on development velocity and an 18% increase in onboarding efficiency for new carriers.

PROJECT EXPERIENCE

VIC-based Drought Severity Prediction Model

Jan 2025 – Present

- Trained a linear regression model to predict monthly drought severity under varying GHG scenarios, achieving up to 0.99 R^2 and generating 75-year long-term forecasts for climate planning.
- Engineered temporal and hydrometeorological features (lags, rolling means/std deviations, interactions) and validated results across three climate models using time-series cross validation with 90% prediction intervals.

Traffic Signal Detection with Neural Networks

Oct 2024 – Dec 2024

- Designed and fine-tuned YOLOv8-nano for traffic signal detection using 7,000+ collected images using mosaic tiling transformations, achieving 67.9% accuracy on the Bosch dataset.

Festive

Oct 2023 – Dec 2023

- Developed an event planning web chat platform using Ruby on Rails and PostgreSQL, with tailored recommendations from OpenAI API and Google Calendar integration.

SKILLS & INTERESTS

- Strong collaborator and organized problem solver; experienced in coordinating complex technical projects