

ETHAN (TAEHOON) LEE

US Permanent Resident · ethantlee21@gmail.com · taehoonlee.dev · github.com/ethn1ee

EDUCATION

Emory University

Atlanta, GA

Bachelor of Science in Computer Science

Expected May 2026

- **Honors:** 3.99 GPA, 6x James T Laney Scholarship, 3x Dean's List
- **Courses:** Data Structures & Algorithmns, Computer Architecture, Algorithm Analysis, Machine Learning, Cybersecurity

WORK EXPERIENCE

Cloud Platform Engineering Intern

Atlanta, GA

UKG

May 2025 – Aug 2025

- Developed an internal REST API in Go to aggregate real-time state of on-prem MongoDB, MySQL, and RabbitMQ servers across 4 distinct datacenters, using cloud-native technologies such as Docker, OpenTelemetry, Prometheus, and OpenStack
- Deployed a Kubernetes CronJob for monitoring TLS certificate expiry to provide observability during certificate renewal
- Collaborated with Grafana to establish synthetic monitoring for server health checks and provisioned probes with Terraform
- Applied CI/CD and GitOps principle using ArgoCD and GitHub Actions to fully automate container release and deployment

Software Engineering Intern

Atlanta, GA

eStreamly

Jun 2024 – Aug 2024

- Maintained a full-stack video streaming-based shopping platform, leveraging Angular for frontend and .NET for backend
- Managed CI/CD pipelines using Google Cloud Build and performed a significant frontend redesign to enhance accessibility
- Collaborated in an Agile team of developers, contributing to weekly sprints and QA testing for efficient feature delivery

Software Engineering Intern

Atlanta, GA

UrsaTech

Jan 2024 – Apr 2024

- Developed a gamified coding education web app, integrating 3D games and a LLM chatbots into the frontend using Next.js
- Utilized a diverse stack of 30+ widely-used JavaScript libraries, including AWS Amplify, Auth0, Express.js, AI SDK, and MUI

Research Assistant

Atlanta, GA

Emory University CAV Lab

Nov 2023 – Sep 2025

- Aggregated 100+ GB of streaming history data from 60 Spotify users using Python for comprehensive statistical analysis
- Created interactive web data visualizations using React and d3.js, enabling dynamic exploration of music streaming history

PROJECTS

Kubernetes Homelab

taehoonlee.cloud

- Managing a personal Kubernetes cluster on a Raspberry Pi, implementing a highly available microservices architecture
- Deployed 10+ services including PostgreSQL, Prometheus, Redis, and Vault using Helm and custom resource definitions
- Developed a gRPC backend server with Go to proxy all inter-service communication, enhancing security and observability
- Achieved complete CI/CD pipeline via GitHub Action and ArgoCD, automating Docker image release and deployment

Emory Hacks: Emory University's Student-Run Hackathon

emoryhacks.com

- Led the technology department as a co-founder and developed annual hackathon website using React, Next.js, and TypeScript
- Secured 200+ participants and sponsorships of \$20K+ from major firms including JPMorgan, Hyundai, and WolframAlpha

Curaitor: AI-powered Coursework Manager

devpost.com/software/curaitor-7epmv2

- Developed an AI coursework management agent for college students as part of HackGT 12, leveraging Gemini API and Go
- Implemented concurrency with multiple Gemini clients as goroutines, managing race conditions with context and mutex

SKILLS

- **Languages:** Go, JavaScript, TypeScript, Java, Python, C, Rust, SQL, HTML, CSS, Bash, Nushell, Ruby, Typst
- **Cloud-Native Technologies:** Kubernetes, Docker, Helm, Terraform, gRPC, Protobuf, Prometheus, OpenTelemetry, OpenStack
- **Web Development:** React, Next.js, Tailwind CSS, NGINX, Svelte, Node.js, Django, Angular, Express.js, Spring Boot
- **Tools:** Linux, Git, AWS (S3, Lambda, Cloudfront), GCP (Cloud Run/Build, Cloud SQL, Gemini), Redis, SQLite, PostgreSQL