

# ETHAN (TAEHOON) LEE

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## SKILLS

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

## WORK EXPERIENCE

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### Software Engineering Intern (Cloud Platform)

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 **TypeScript** 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

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### Kubernetes Homelab

taehoonlee.cloud

- Managing a personal **Kubernetes** cluster on a Raspberry Pi, implementing a highly available microservices architecture
- Deployed 10+ services including **PostgreSQL**, **Redis**, Prometheus 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 **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 **Next.js** and **Go**
- Implemented concurrency with multiple Gemini clients as goroutines, managing race conditions with context and mutex

## EDUCATION

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### 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:** Computer Architecture, Algorithm Analysis, Machine Learning, Cryptography, Database Systems, Deep Learning