

# ETHAN (TAEHOON) LEE

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## EDUCATION

### Emory University

Bachelor of Science in Computer Science

Atlanta, GA

Expected May 2026

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

## WORK EXPERIENCE

### Cloud Platform Engineering Intern

UKG

Atlanta, GA

May 2025 – Aug 2025

- Implemented a Kubernetes CronJob for monitoring TLS certificate expiry to provide observability during certificate renewal
- 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
- 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

eStreamly

Atlanta, GA

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

### Data Science Research Assistant

Emory University CAV Lab

Atlanta, GA

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 jQuery 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

github.com/esunn0412/curaitor

- Built an intelligent coursework management tool 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.

### Emorylife: Korean Community Hub at Emory

emorylife.net

- Built a college community website for Korean parents of Emory University to share academic and financial resources
- Developed the full-stack web app using Next.js, TypeScript, tRPC, and PostgreSQL, featuring internationalization and SSR

## SKILLS

- **Languages:** Go, JavaScript, TypeScript, Java, Python, C, 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, Vim, Helix, AWS (S3, Lambda, Cloudfront), GCP (Cloud Run, AlloyDB, Gemini), Redis, SQLite, PostgreSQL