ETHAN (TAEHOON) LEE

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EDUCATION

Emory University   **Atlanta, GA**
Bachelor of Science in Computer Science   Expected May 2026
- **Honors**: 4.0 GPA, 6x James T Laney Scholarship, 3x Dean's List
- **Courses**: Computer Architecture, Algorithm Analysis, Machine Learning, Cryptography, Database Systems, Deep Learning

WORK EXPERIENCE

Software Engineering Intern (Cloud Infrastructure)   **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
- Provisioned monitoring probes with **Terraform** to establish synthetic testing for server health, collaborating with Grafana
- 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
- Improved user interface of a full-stack video streaming-based shopping platform, leveraging **TypeScript**, **Angular**, and **.NET**
- Managed **Docker** image release pipelines using **GCP Cloud Build** and provisioned **Cloud SQL** and **AlloyDB** instances
- 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

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

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 technolgy 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

SKILLS

- **Languages**: Go, JavaScript, TypeScript, Java, Python, C, Rust, 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