

ETHAN (TAEHOON) LEE

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EDUCATION

Emory University

Atlanta, GA

Bachelor of Science in Computer Science

Expected May 2026

- **Honors:** 3.99 GPA, 2x James T Laney Scholarship, 5x Dean's List
- **Courses:** Computer Architecture, Systems Programming, Algorithm Analysis, Cryptography, Database Systems

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 network health of on-premise MongoDB, MySQL, and RabbitMQ VMs across 4 distinct datacenters, using Docker, OpenTelemetry, Prometheus, BOSH, and OpenStack
- Deployed a Kubernetes CronJob for monitoring TLS certificate expiry to provide observability during certificate renewal
- Provisioned synthetic testing probes with Terraform and deployed Grafana BlackBox exporters to enhance observability
- Applied CI/CD and GitOps principle using ArgoCD and GitHub Actions to fully automate container build 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

Huddle: RAG-based Surety Solution

huddlesurety.co

- Created a SaaS platform to streamline collaboration between surety contractors and agents, funded by Emory Hatchery
- Architected an event-driven RAG pipeline using Temporal to asynchronously parse and generate bid bond documents
- Delivered 10+ product demos and customer interviews, leading to a \$10K funding round and early product validation

Overburrow: Kubernetes Homelab

overburrow.org

- Architected a bare-metal K3s cluster on 3 Raspberry Pis, utilizing Ansible for idempotent node provisioning, Cilium for cluster networking with Gateway API, ArgoCD for declarative GitOps workflow, and Prometheus for observability
- Engineered a hybrid networking mesh combining Cilium CNI with Tailscale VPN as the underlay transport and solved complex MTU fragmentation issues by implementing custom packet clamping rules to bypass standard VXLAN encapsulation

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

SKILLS

- **Languages:** Go, JavaScript, TypeScript, Java, Python, C, Rust, SQL, HTML, CSS, Bash, Nushell, Typst, LaTeX
- **Cloud-Native Technologies:** Kubernetes, Linux, Docker, Helm, ArgoCD, Ansible, Prometheus, OpenTelemetry, Grafana
- **Tools:** Git, AWS (S3, Lambda, Cloudfront), GCP (Cloud Run, AlloyDB, Pub/Sub, Vertex AI), Redis, SQLite, PostgreSQL