

ETHAN (TAEHOON) LEE

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EDUCATION

Emory University <i>Bachelor of Science in Computer Science</i>	Atlanta, GA
	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) <i>UKG</i>	Atlanta, GA
	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 <i>eStreamly</i>	Atlanta, GA
	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 <i>UrsaTech</i>	Atlanta, GA
	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 <i>Emory University CAV Lab</i>	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 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 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, 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