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, 6x James T Laney Scholarship, 4x 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 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

Overburrow: Kubernetes Homelab   overburrow.org
- Architected a bare-metal K3s cluster on ARM64 hardware, utilizing Ansible for idempotent node provisioning and OS-level kernel tuning (e.g., checksum offloading disablement) to ensure stability on Raspberry Pi NICs
- Engineered a hybrid networking mesh combining Cilium CNI with Tailscale as the underlay transport and solved complex MTU fragmentation issues by implementing custom packet clamping rules to bypass standard VXLAN encapsulation
- Implemented a full GitOps workflow with ArgoCD and GitHub Actions, enabling declarative and automated deployments

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 during HackGT 12, leveraging Next.js and Go
- Implemented an event-driven architecture using the Actor Model, while managing race conditions with channel and mutex

SKILLS

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