

# ETHAN (TAEHOON) LEE

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## EDUCATION

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### Carnegie Mellon University

MS in Computer Science

Pittsburgh, PA

Expected May 2028

### Emory University

BS in Computer Science

Atlanta, GA

May 2026

- **Honors:** 3.99/4.0 GPA, Summa Cum Laude, 2x James T Laney Scholarship, 5x Dean's List, Phi Beta Kappa Honor Society

## SKILLS

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- **Languages:** Go, TypeScript, JavaScript, Java, C, Rust, Python, SQL, HTML, CSS, x86 Assembly
- **Technologies:** Kubernetes, Linux, Docker, AWS, GCP, Cloudflare, PostgreSQL, Redis, MongoDB, OpenTelemetry

## WORK EXPERIENCE

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### Founding Engineer & CTO

Huddle Surety (Techstars Pre-Accelerator)

Atlanta, GA

Sep 2025 – Present

- Led a team of 4 engineers to architect an AI-powered surety bond automation platform in Go, TypeScript, and Python
- Built a multi-stage RAG pipeline using pgvector, Vertex AI, and reranking models to ingest and generate bond documents, achieving 95% bond request generation accuracy and reducing bond issuance process from 1 hour to under 5 minutes
- Developed a web app with role-based UI delivering distinct UX for agents and contractors, enhanced by SSR and tRPC
- Deployed a microservices architecture on Google Kubernetes Engine, handling 100+ documents per day across tenants

### Software Engineering Intern (Cloud Infrastructure)

UKG

Atlanta, GA

May 2025 – Aug 2025

- Developed a production REST API in Go implementing a worker pool concurrency pattern to aggregate and monitor network health of 200+ MongoDB, MySQL, and RabbitMQ servers across 4 geodistributed datacenters real-time
- Implemented a TLS certificate validator using Kubernetes CronJobs, accelerating the biannual renewal process by 70%
- Provisioned Prometheus Blackbox Exporters across isolated OpenStack tenants to achieve distributed observability

### Software Engineering Intern (Full Stack)

eStreamly

Atlanta, GA

Jun 2024 – Aug 2024

- Optimized global state management and client-side caching using TypeScript and Angular, reducing page latency by 40%
- Created multi-stage container build and release pipeline on GCP Cloud Build, improving deployment speed by 35%

## PROJECTS

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### Spotify Warped: HCI Research & Publication

[dl.acm.org/doi/10.1145/3772318.3790875](https://dl.acm.org/doi/10.1145/3772318.3790875)

- Published to ACM CHI 2026 on how Spotify's algorithmic feedback loops shape listening behavior and data engagement
- Built high-throughput data processing pipelines in Python to ingest 100 GB of Spotify streaming data from 60 users
- Created interactive data visualization using d3.js and React to explore temporal and spatial patterns of listening behavior

### Macterm: Native MacOS Terminal Emulator with Persistent Multiplexing

[github.com/thdxg/macterm](https://github.com/thdxg/macterm)

- Built a macOS terminal in SwiftUI on top of libghostty capable of persistent multiplexing, earning 1.5K+ downloads
- Implemented fuzzy command palette, configurable hotkeys, and declarative YAML configuration for persistent layouts

### Kubernetes Homelab

[github.com/overburrow](https://github.com/overburrow)

- Architected a bare-metal 3-node K3s cluster on Raspberry Pis hosting personal projects, powered by Cilium and FluxCD
- Implemented dual-gateway ingress using Gateway API, using Tailscale for private and Cloudflare Tunnel for public traffic

### Emory Hacks: Emory University's Hackathon Organization

[emoryhacks.com](https://emoryhacks.com)

- Attracted 300+ participants and \$20K+ sponsorship over 2 years as a co-founder, leading the technology department
- Developed annual hackathon website using Next.js and TypeScript with a backend using Spring Boot and Firebase