

Caleb Bae

baecal000@gmail.com | linkedin.com/in/baecal000 | github.com/balebbae

EDUCATION

University of Texas at Dallas

Bachelor of Arts in Computer Science – GPA: 3.778

Richardson, TX

Aug. 2023 – Dec. 2026

ACM UTD | HackUTD, Projects, Technical Interview Prep (TIP), Education, Mentor Mentee

- Developed and maintained HackUTD's HackPortal, used by 1,000+ students annually and at 5+ other hackathons

EXPERIENCE

Homebase

Sep. 2025 – Dec. 2025

Forward Deployed Software Engineering Intern (AI-Acceleration)

San Francisco, CA

- Owned and shipped **Starter Tools** for the marketing team (**React TS, Vite, Supabase Edge Functions, Netlify**), taking **five tools** from prototype to production, resolving ISP/hosting issues via **Netlify**, implementing iframe embeds, and productionizing the Bolt Vibecoded experience after a major refactor.
- Major contributor to Batting Cage, an AI-driven sales rep training app (**React TS, Ruby Sinatra, PostgreSQL, Stytych, OpenAI SDK, Whisper**), adding customer configurations and sliding-window screen sharing that streams compressed frames to **OpenAI Realtime** without overloading context.
- Developed a research agent in **Ruby/Python** to audit Amplitude-related constants (**1,300+ analyzed**), flagging **47 confirmed unused, 150+ anti-patterns, 12 duplicate** groups, and **5 safe-to-delete** keys, and benchmarking best-practice vs legacy patterns.

Capital One

Jun. 2025 – Aug. 2025

Software Engineer Intern (Technical Internship Program)

Plano, TX

- Reduced manual **Service Level Indicator (SLI)** and **Service Level Objective (SLO)** provisioning time on Capital One's Internal Developer Platform by creating a custom **Backstage scaffolder action** integrated as a step in an **AWS Lambda** template to onboard each component with default **SLIs** and **SLOs**
- Developed **custom scaffolder actions** to integrate Backstage with a **distributed serverless platform** for reliability insights, enabling dynamic workflows for SLO management and monitoring
- Utilized **Nunjucks templates** to standardize infrastructure and monitoring configurations, ensuring scalability

PROJECTS

Ebby | TypeScript, Python, Next.js, Flask/SocketIO, MediaPipe, ChromaDB

Oct. 2024

- Collaborated with a team of 2 to develop Ebby, a platform, providing SMU students with mental and physical support, winning **Best Use of Propel Auth** and **2nd place in the OIT track for HackSMU**
- Assisted in implementing a personalized health chatbot utilizing **RAG** and **ChromaDB** to deliver SMU-specific wellness resources, leveraging **OpenAI API, ScraperAPI**, and **Flask** to enhance student guidance accuracy
- Led fitness tracking with **OpenCV** and **MediaPipe** enabling users do a set amount of reps before moving on and connected to **Next.js** through a **WebSocket** with the use of **Flask-SocketIO** for **real-time** feedback
- Assisted in implementing anonymous peer support group chats using **TalkJS**, based on a questionnaire answered by students, creating a safe space for students to connect and share experiences, supported by **real-time** messaging

RESA | Go, TypeScript, Next.js, Chi, PostgreSQL, Docker, Redis, Swagger, Zap

Jan. 2025 – Present

- Architected RESA (Restaurant Employee Scheduling Application) as a enterprise grade **microservices** platform achieving **60%+** performance optimization as measured by **Redis caching** implementation reducing **PostgreSQL** query load, by building distributed **Go/Chi backend** with **Clean Architecture**
- Delivered **REST API** supporting **20+ endpoints** across **6 core entities** as measured by complete **Swagger documentation** and hierarchical resource structure, by implementing **JWT authentication middleware, rate limiting**, and comprehensive **CRUD** operations for restaurant management
- Built scalable containerized infrastructure with **Docker** as measured by **multi-service deployment** including **PostgreSQL, Redis**, and **Redis Commander**, by implementing environment-based configuration and automated **CI/CD pipeline** with version management

TECHNICAL SKILLS

Languages: Go, Python, C#, C++, SQL (Postgres), JavaScript/TypeScript, HTML/CSS

Programming: LangChain/LangGraph, MCP, Claude Code, React, Next, Gin, Flask, .NET, REST/GraphQL, Firebase, Supabase, Git, shadcn/ui, Tailwind CSS