Caleb Bae

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EDUCATION

University of Texas at Dallas — Richardson, TX
Bachelor of Arts in Computer Science – GPA: 3.778 — *Aug. 2023 – Dec. 2026*

STUDENT ORGANIZATIONS

- **ACM UTD | HackUTD, Projects, Technical Interview Prep (TIP), Education, Mentor Mentee**
  - Develop and maintain HackUTD's official organizer tool, HackPortal, used by **1000+ students** annually at HackUTD, and **six** other hackathons in the country.
  - Utilize **TypeScript** and **Firebase** to create an intuitive and team matchmaking module within HackPortal.
  - Redesign HackPortal's official website with the usage of **ReactJS**, **TypeScript**, **CSS**, and **HTML**.

EXPERIENCE

Homebase — Sep. 2025 – Dec. 2025
INCOMING FALL Software Engineer Intern — *San Francisco, CA*

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 and adherence to organizational best practices

Solviticians LLC — Nov. 2024 – Jun. 2025
Software Engineer Intern — *Frisco, TX*
- Developed and maintained professional client solutions using **.NET Core** and **ReactJS**, implementing complex business-logic services in .NET Core, leveraging **TypeScript** for static typing
- Reduced average API calls per view by **80% (from 5 to 1)** as measured by network logs, by implementing preloaded **GraphQL** queries in **ReactJS** to batch-fetch section items and streamline UI responsiveness

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: React, Next, Gin, Flask, .NET, REST/GraphQL, Firebase, Supabase, Git, shadcn/ui, Tailwind CSS