

Tae Kim

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EDUCATION

University of California, Los Angeles

Bachelor of Science in Computer Science

Los Angeles, CA

Dec 2025

EXPERIENCE

Founding Engineer

Ace Alarm, Inc

Sep 2023 – Present

Los Angeles, CA

- Architected and developed Perimeter, a full-stack operations platform managing 2,000+ security accounts using Next.js, ASP.NET Core, SQL Server, and AWS
- Replaced a paper-based process for 10–20 daily work orders with a digital workflow used by 15+ employees, eliminating lost tickets and enabling assignment, follow-up tracking, and operational reporting
- Collaborated with field teams and stakeholders to define product requirements, drive technical design and sprint planning, and deliver production features
- Built a real-time video monitoring prototype supporting RTSP camera ingestion, WebRTC browser playback, event clip generation, and YOLO-based object detection

Operations Manager

Ace Alarm, Inc

Aug 2021 – Aug 2023

Los Angeles, CA

- Managed technical operations, including 24/7 security monitoring, payment processing, and field services
- Configured and troubleshoot cloud-based and on-premises security, access control, and video surveillance systems

Software Engineer

Freelance

Oct 2018 – Mar 2023

Remote

- Developed web, e-commerce, mobile, and game applications for 5 clients using ASP.NET Core MVC, Razor, Shopify, WordPress, Unity, and Blender

PROJECTS

Parallel Quantum Instruction Dataset | *Python, Qiskit*

- Contributed to LLM evaluation research at HAIR Laboratory, Yonsei University
- Validated Qiskit code, circuit-text consistency, and LLM-generated explanations for technical accuracy

Distributed Systems | *Go, Paxos, RPC, MapReduce*

- Built distributed key-value services using primary-backup replication and Paxos consensus for fault tolerance
- Implemented sharding, replica group management, and dynamic reconfiguration for scalable key-value storage
- Developed a MapReduce framework with distributed task scheduling and worker failure recovery

Finsight | *React Native, Supabase, PostgreSQL, Plaid API*

June 2020 – Present

- Developed a personal finance mobile app for budgeting, expense tracking, and financial goal management
- Integrated Supabase authentication, PostgreSQL, and Plaid API for user management and financial data access

MiniJava Compiler | *Java, RISC-V, Compiler Design*

- Built a multi-stage compiler translating MiniJava into RISC-V assembly
- Implemented semantic analysis, type checking, and inheritance, and dynamic method dispatch
- Developed liveness analysis and linear-scan register allocation with register spilling and stack management

CoTask | *Next.js, PostgreSQL, AWS*

- Built a collaborative task management app with group workspaces, task tracking, and commenting features
- Developed RESTful APIs with JWT authentication and PostgreSQL for user, group, and task management

TECHNICAL SKILLS

Languages: Typescript, Javascript, C#, C++, Python, Go, Java, Sybase, MSSQL, PostgreSQL

Frameworks: React, Next.js, Node.js, Vite, TanStack Router, ASP.NET, Entity Framework, Shopify, WordPress

Developer Tools: Git, Docker, AWS, Azure, VS Code, Visual Studio

IoT: Intrusion Systems, Access Control, Video Surveillance, Low Voltage Certificate, PBX, ONVIF, RTSP