

# Tao Chen

## Senior Software Engineer

San Jose, CA 95116

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## SUMMARY

Innovative and impact-driven full stack engineer with 7+ years of experience building scalable web platforms and microservices for fast-moving startups. Proven success designing greenfield systems, leading engineering teams, and shipping real-time data-driven applications in production.

Strong proficiency in **TypeScript, JavaScript (ES6+), Node.js, React**, and **cloud-native architectures (AWS, Docker, Kafka)**. Passionate about solving hard problems in ambiguous environments with agile and responsible AI practices.

## Technical Skills

**Languages:** TypeScript, JavaScript (ES6+), Python, Go, Ruby, C#, SQL

**Frontend:** React.js, React Native, Redux, Tailwind, Next.js

**Backend:** Node.js (Express, Fastify, NestJS), Ruby on Rails, Django, FastAPI, Laravel

**Architecture:** Microservices, RESTful APIs, Event-driven, Message Queues (Kafka, RabbitMQ), Pub/Sub

**Databases:** MongoDB, PostgreSQL, DynamoDB, Redis, Cassandra

**Cloud & DevOps:** AWS (API Gateway, ECS, DynamoDB, MSK), Docker, Kubernetes, CI/CD, Terraform, CloudFormation

**Tools:** Git, Slack API, Zoom SDK, Prometheus, Grafana, ELK Stack, CloudWatch

## EXPERIENCE

***Creatify AI, Mountain View, CA - Founding AI Full-Stack Engineer***

06/2024 - 04/2025

- Designed and built a high-performance **microservices backend** using **Rails and Node.js**, with React dashboards to power video ad generation with **real-time learning loops**
- Developed proprietary CV/NLP models and integrated them via REST APIs for auto-formatting TikTok, Reels, and YouTube creatives
- Reduced video-ad production time from hours to minutes using **AI/ML diffusion models, LLMs, and parallel rendering**
- Delivered a public **Rails/Node API** and reusable **React components** adopted by 30% of enterprise users in Q1
- Partnered cross-functionally to draft responsible AI guidelines and productize AI features with compliance in mind

***HeySam AI, San Mateo, CA - Senior Software Engineer***

08/2023 - 06/2024

- Led engineering efforts on 3 major product revamps, improving performance and maintainability across **React + Node.js** stacks
- Built scalable, event-driven healthcare and fintech systems using **MERN, RabbitMQ**, and **SOLID principles**
- Developed a meeting bot integrating **Zoom SDK, Google Meet**, and **Google Calendar API** for seamless scheduling
- Created a Slack-based AI chatbot that reduced support workload with real-time, contextual Q&A
- Designed observability features using **Go, React, Laravel, PHP**, ensuring uptime across distributed systems

***WiFrost Inc, Palo Alto, CA - Founding Engineer***

07/2021 - 07/2023

- Spearheaded the development of multiple B2B SaaS platforms with full ownership of backend and infrastructure
- Built scalable, **serverless architectures** using **AWS API Gateway, EKS, Load Balancer**, and DynamoDB

- Implemented **CI/CD pipelines** and ETL workflows that halved deployment times
- Integrated **Channel AI**, a feature recommending optimal channels based on RF and geo data
- Modernized a legacy codebase (Go + Rails), boosting test coverage to 99% and cutting code complexity by 15%

***Adapstrum Inc, San Jose, CA - Full-Stack Software Engineer***

06/2018 - 07/2021

- Built embedded device tools enabling self-diagnosis for non-technical users via cloud access
- Migrated Java microservices to **Python (FastAPI/Django)** and Go, improving latency by 15%
- Designed a proxy platform querying 20+ TVWS databases to dynamically optimize spectrum allocation
- Created C# automation tools and managed backend authentication flows

## EDUCATION

09/2021 - 12/2022

San Francisco Bay University, Foster City, California - M.S. Computer Science

09/2014 - 05/2018

University of Arizona, Tucson, Arizona - B.S. Computer Science and Mathematics

I got the Bachelor's Degree while I was studying at University of Arizona in Tucson, Arizona. After over 3 years of work experience, I got a Master's Degree at San Francisco Bay University.

## PERSONALITY

- **Team Work Skills:** Provide guidance and mentorship to the team, helping them to develop new skills and stay up to date with the latest technologies..
- **Technically Versatile:** Adaptability and passion for technology led to possession of a wide range of skills.
- **Collaborative & Product-Oriented:** Not just a coder - always care about users, compliance and the business impact of your work.

## Languages

- English: Native
- Chinese: Native

## Additional Highlights

- Led teams in fully remote settings with strong communication and agile practices
- Familiar with frontend migration strategies (e.g., Alpine → React) and balancing speed vs. maintainability
- Built and integrated observability and monitoring UIs for real-time debugging
- Experienced in diverse domains: AI/ML tools, cybersecurity, video rendering, healthcare, and telecom
- Contributed to responsible AI initiatives and user data protection compliance