


LINENG(VINCE) CAO

as **Senior Software Engineer**

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Stack

Frontend	<i>React, Typescript, JavaScript (es6+), TailwindCSS, Radix-ui, Jest, Cypress, Babel, Webpack, Vite, Rollup, Three.js(R3F), d3.js;</i>
Mobile	<i>React Native, Electron, SwiftUI, Flutter;</i>
Backend	<i>Next.js SSR, Nodejs, Remix, Redis, Websocket, Server-Sent Events, MongoDB, PostgreSQL, GraphQL, Nestjs, Fastify;</i>
Infra/DevOps	<i>Github Actions, Git, Terraform, Docker, Kubernetes, AWS, Supabase, Firebase;</i>

Education

<i>M.S in Computer Science at University of Southern California</i>	<i>Los Angeles, CA, Aug 2018 - May 2020</i>
<i>B.S. in Computer Science Major, Mathematics Minor at Kean University</i>	<i>Wenzhou, China, Aug 2013 - May 2017</i>

Employment

<i>Senior Software Engineer,</i>	<i>San Francisco, CA, Jul 2023 - Present</i>
<i>Software Engineer at DeepScribe</i>	<i>San Francisco, CA, Jan 2020 - Jul 2023</i>
<ul style="list-style-type: none">- As early founding engineer, designed, lead and built mission-critical practitioner portal, Twilio and Vonage telemedicine solution, early Human-in-the-loop (HITL) web platform solution, serving thousands of healthcare providers nationwide daily, reducing workflow complexity while maintaining high medical note quality and efficiency rate.- As a part of applied-ai team, collaborated with ML engineers to develop specialty-focused automated note generation solution, incorporating practitioner preferences and medical practices.- Established robust CI/CD infrastructure utilizing AWS Amplify, Docker containers, and GitHub Actions, significantly improving deployment efficiency into early products lifecycle.- Contributed next-generation iOS practitioner application using SwiftUI, expanding platform accessibility.- Led integration of third-party vendor partnerships and developed internal tooling for customer success teams.- Conducted technical interviews and mentored new engineering team members while maintaining code quality and managing technical debt.	

<i>Full-stack Developer, Student Worker at USC Information Sciences Institute (ISI)</i>	<i>Marina Del Rey, CA, Nov 2019 - Jan 2020</i>
<ul style="list-style-type: none">- Redesigned user interfaces for DeterLab cyber experimentation platform (DEW).- Modernized core Python codebase by implementing RESTful architecture using Flask.	

<i>Software Development, Intern at Oracle (China)</i>	<i>Beijing, China, Aug 2016</i>
<ul style="list-style-type: none">- Enhanced authentication system for Oracle BI Liquidity Management Reporting System.- Optimized database performance through SQL query refinement and duplicate entry management.	

Open-source Project

Recipe Muse, [/github](#)

- Developed LLM-powered recipe generator with personalized meal planning capabilities.
- Implemented text and image models switching architecture between OpenAI, Anthropic, DeepSeek, and Stability.ai.
- Built with Next.js SSR, Redis, SSE, Supabase and Firebase Realtime Database, featuring structured JSON model outputs and multi-language support.

s3db, [/npm](#)

- Created database abstraction layer for AWS S3 with document-type storage capabilities.

use-tools, [/npm](#)

- Developed collection of React hooks optimizing common development workflows.

COVID-statistics, [/github](#)

- Built real-time COVID-19 dashboard using Nivo, Next.js, TypeScript, and Framer-motion.

Foldable Side Panel (Chrome extension), [/github](#)

- Engineered React-based Chrome extension template with modern tech stack (Parcel, TypeScript, TailwindCSS).

Publication

<i>HCI 2017, A Highly Customizable Parent-Child Word-Learning Mobile Game for Chinese Children with Autism, link</i>	<i>May 2017</i>
<i>HCI 2016, "One Doesn't Fit All": A Comparative Study of Various Finger Gesture Interaction Methods, link</i>	<i>Jun 2016</i>