ANDY HONG
Software Engineer

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INTRO

Lead software engineer with 10+ years of experience owning products end-to-end. Built and scaled SaaS applications serving 600,000+ students, transforming system reliability, performance and interface while driving significant business growth.

EXPERIENCE

Senior Full-Stack Engineer   Aylo Health - Ensomata: 2022 - Now

Served as a core contributor in the full stack development of Ensomata, an modern EHR mobile app, from initial conception through launch. The solution is now implemented across approximately 20 Aylo hospitals and clinics

- Implemented Ensomata frontend using React, Typescript, NextJS and ChakraUI, delivering an intuitive interface reducing training time by 50% and achieved a 95%+ satisfaction rating from healthcare professionals.
- Implemented a synchronization process between Aylo's core database and the Ensomata database, using AWS Lambda and SQS. The sync process decoupled Ensomata's direct reads/writes from Aylo, enabling it to greatly improve performance, and development speed by 300%.

Lead Software Engineer ⭐   CoBro: 2016 - 2022

Rebuilt the core product completely from the ground up, growing the company from 20 clients to 110 in the first 3 years. The system provides analytics services to educational institutions, serving over 600,000 students and tracking 40 million activities.

- Leading full-stack architecture and development across UI/UX design, frontend, backend and multi-tenant databases. Delivered features: authentication, real-time reports, texting service, student surveys, file management and much more. Increased client retention rate from 70% to 95% by improving system reliability through design principles and comprehensive testings
- Streamlined the data import (ETL) workflow with intuitive UI, automating schema mapping and optimizing validations, resulting in 90%+ in man hours reduction and 99.9%+ in data integrity.
- Architected cloud infrastructure solution using Azure, deploying multi web-servers with load balancing, object storage and elastic database clustering, greatly improving system uptime, scalability and disaster recovery capabilities.
- Leadership: led a team of 3 engineers while working with other core teams to maintain and grow the app.

Full-Stack Engineer   SupraMed: 2014 - 2016

In this startup, I rapidly delivered new features for the company's EHR system, while learning valuable skills during regular meetings with the software Architect. The startup was acquired within two years.

Junior Software Engineer   Humana: 2012 - 2014

Began my journey in web backend and motivated myself to grow into a full stack role to deliver full features independently.

SKILLS

Backend:	C# + .NET SQL Node.js + Express.js Java Python3 C
Frontend:	Typescript/Javascript React HTML/CSS UI/UX Design
Fundamentals:	System Architecture Distributed Systems Testing Data Structures & Algorithms
Tools:	Azure AWS Docker NUnit Selenium LLM Copilot Cursor

OTHERS

Education:	UC San Diego, B.S in Computer Scence & Engineering
This Resume:	Coded using React, TypeScript and Material-UI from scratch. Time taken: 20 hours.