

Alto | Senior back-end software engineer

Dec. 2021 - Aug. 2023

Created the back-end for the shift scheduling product

Contributed to several services by adding new features, code fixes, and improved robustness with tracing, helpful logging, alerts

SuperCare Health | Senior software engineer

Feb. 2017 - Dec. 2021

Designed, developed, tested, and provided documentation for the following projects:

Digital signatures	Back-end service providing digital signature functionalities, dynamic PDF rendering, framework for others to create signable documents
Full-stack watchdog	Monitors in-house web apps across multiple servers, displays status and other details on an internal web portal, email and text alerts for crashes, freezes, low resources
Notification service	Internal and customer-facing back-end service on a serverless architecture that sends emails, texts, and faxes for various events
Call center	AWS Connect integration with custom React components and mass outbound IVRs
Authentication service	Front and back-end middlewares, API server for use by internal web apps
Delivery driver tracker	Dashboard displaying live locations of the company's delivery drivers on a map

Contributed to the following projects:

Care management	Created the back-end for the customer-facing iOS app
Document management	Developed auxiliary full-stack services and React components
Delivery management	Provided an address validation service using USPS, various endpoints, code fixes
Infrastructure	Migrated servers from GCP to AWS, MongoDB replica sets to AWS DocumentDB

Trading bot for cryptocurrencies | Personal project

Developed a program with the ability to execute modularized trading strategies based on various technical indicators

Included a simulator for testing investment strategies on historical data and React-based UI with charts and graphs

Dylect | Personal project / startup attempt

Developed a full-stack, peer-to-peer video chat web application using WebRTC

Integrated a collaborative whiteboard with image sharing; text chat with translation and speech-to-text capabilities

University of California, Los Angeles

Computer Science, B.S.

Graduated Dec. 2015

Primary stack	React with Redux, Material UI, TypeScript for front and back-end, NoSQL
Amazon Web Services	API Gateway, CloudFront, CloudWatch, Connect, DocumentDB, DynamoDB, EC2, IAM, Lambda, Route 53, S3
Google Cloud Platform	BigQuery, Build, Cloud Functions, Kubernetes, Logging & Metrics, Tracing
Notable APIs & technologies	Firebase (Firestore, Functions), GraphQL, Google (Drive, Gmail, Identity, Maps, OR Tools, Text-to-Speech, Translation, Vision), MongoDB, OpenTelemetry, PostgreSQL, SendGrid, Stripe, Twilio (SMS, Video), web3.js, WebRTC, WebSockets
Testing/QA	Mocha+Chai, Jest, Sinon, AVA for Node.js; Golang's testing package; Swagger
Past languages	Assembly, C, C++, Java, Go, Python, Rust, Solidity