Benjamin Nguyen

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Experience

Senior Software Engineer   Jun 2023 - Present
UCLA Health | Interfaces Engine Team | Remote
- Developed services to transform and deliver **14 million+ HL7 msgs/day** to vendors, enabling real-time monitoring of hospital patient health.
- Built data compare service as part of our containerization and K8 migration effort to **automate the verification of the converted data output for 200+ services**.
- Built observability dashboard to monitor queue depths and respond to service failures, reducing average on-call resolution time from 30m to 10m.

Software Engineer II   Oct 2022 - Jun 2023
Software Engineer I   Oct 2021 - Oct 2022
CalAmp | Device Manager Team | Carlsbad, CA
- 1 of 4 engineers that **rebuilt the device management platform and migrated over 1 million customers and 10 million devices.** Event-driven, distributed backend horizontally scaled to handle the increasing API usage (subscriber count grew 60% year of launch).
- Designed and implemented Java and Go microservices to persist and synchronize incoming device state across other teams' caches by streaming change events and informing notification service. Pub/sub-based, asynchronous message routing using Kafka offloaded bulk of routing logic to consumers and **increased system throughput from 4k to 30k msgs/min**.

Software Engineer   Oct 2019 - May 2021
FAST Enterprises | Data Analytics Team | Springfield, IL
- Trained Sales Tax Audit Selection model, which suggested leads that generated **$2,825/audit hour ($2.5 million total)**.
- Developed Current Residence Prediction program to automate the resending of undeliverable notices of tax due, **clearing a backlog of 13,600+**.

Projects

Opendoor.chat | Client Management and Comms Platform   Nov 2023 - Present
- 🐙 github.com/benjamonnguyen/opendoorchat
- Developing chat web app that seamlessly replaces email correspondence for a better communication experience between vendors and their clients using Go, HTMX, and Alpine.js.

Pomomo | Discord Productivity Bot   Mar 2021 - Oct 2022
- 🐙 github.com/benjamonnguyen/pomomo-rewrite | 🌐 https://pomomo.us
- Developed a bot that facilitates group study sessions on Discord (VoIP/messaging platform) using Python, Typescript, and Vue.js. Presently used in 25k+ servers.

Education

UC Irvine | Data Analytics and Programming Bootcamp   Feb 2019 - Aug 2019
UC San Diego | B.S. in Ecology and Behavioral Evolution   Sept 2014 - Dec 2018

Technology

Java 11/17, Spring Boot, Kafka, Kubernetes, Docker, ActiveMQ, AWS (S3, EC2, CloudWatch, API Gateway, Lambda), PostgreSQL, noSQL (MongoDB, DocumentDB), Redis, Python, Golang, JavaScript, Node.js, HTML, CSS, Liquibase, git, Azure, Quarkus, JUnit/Mockito, Apache Camel, Postman, Hibernate, OOP, Pub/Sub Message Queues, Splunk, Datadog, C#, VB.NET, AGILE, RESTful Web Services