
Backend Software Engineer

Software engineer and dad with experience in **every stage of the software development lifecycle** from product development and ideation to code reviews and deployment. I also have a background in client servicing, cross-functional work, entrepreneurship, finance, economics, and data analysis.

Qualifications

Backend Engineering | Code Reviews | Test-driven Development | CI/CD | Cloud Development
API Development | Data Analysis

Software Experience: TypeScript, Python, PostgreSQL, AWS, Node.js, Git, Docker, Jest

Work Experience

Recurse Center -- Participant January 2024 – March 2024

- Studied backend distributed systems:
 - Implemented a [Paxos consensus algorithm](#) in TypeScript and Node.js.
 - Tutored other participants on building backend frameworks for their own projects.
- Building a [personal website](#) with a Svelte frontend, Nginx reverse proxy, Node.js backend, GitHub Actions CI/CD pipeline, hosted in Docker containers on AWS in EC2.

Better – Software Engineer May 2022 – June 2023

- Maintained and owned an integration service built in TypeScript and PostgreSQL that orchestrated data between internal systems and Better Real Estate’s CRM vendor permitting seamless cross-product customer experiences.
- Simplified and streamlined the codebase by selectively refactoring code, standardizing types, and normalizing databases, while keeping contact with operations and end users to opportunistically simplify user experience.
- Designed and implemented Python services to migrate internal calendaring integration from Google Suite APIs to Office Graph, including high-coverage testing and observability to ensure reliability through the transition.
- Led product design and implementation of expanded CRM functionality, working with a group of cross-functional business partners, that provided 3rd party agents access to Better’s platform and capabilities.

Kanto – Founder & CEO August 2018 – January 2020

- Developed a go-to-market strategy for computational techniques based on novel mathematics with applications in the life sciences. Managed marketing, company formation, contracts, financials, hiring and fundraising.

Goldman Sachs – Commodities Research Associate June 2014 – May 2017

- Constructed databases, interfaces and dashboards using external sources, internal resources, R, and Python. Reduced the time from question to solution from days to hours or minutes, permitting rapid economic analysis.

US Economics Research Analyst

- Generated original research, provided expert analysis, developed and maintained internal infrastructure, and assisted in the preparation of the team’s publications, including presentations for Goldman’s Chief Economist.

Federal Reserve Bank of New York – Rotational Analyst July 2012 – May 2014

- Built and maintained databases, dashboards and chart packs to analyze markets and policy.

The Frog and the Peach – Line Cook August 2009 – December 2009

Education

New York University – M.B.A. January 2013 – May 2016

- Finance, Global Business

New York University – B.A. January 2010 – May 2012

- Mathematics, Economics

California Institute of Technology September 2004 – December 2007

- Studied Applied and Computational Mathematics