

# Jason Rostro

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I fulfill my destiny based on a life philosophy: “Be a lifelong learner,” “Follow your passions,” and “Stay hungry, stay foolish.”

I am a versatile full-stack engineer with comprehensive experience in product development from inception to completion. My expertise includes code enhancement and refactoring, creating SaaS solutions, managing legacy codebases, and handling tech migration and decommissioning projects in complex, demanding, and large-scale enterprises with high volumes of data.

I excel in troubleshooting complex client-side issues and creating efficient, maintainable code that scales with the company's requirements. I am passionate about staying up-to-date with the latest trends in the field and have a knack for quickly learning new technologies.

As a proactive team player, I thrive in collaborating with cross-functional teams of all sizes. I have expertise in JavaScript, TypeScript, Python, PHP, Golang, ASP.NET, and Elixir for both frontend and backend development.

## Experience

APR 2020 – MAY 2024

### Senior Software Engineer | Healthfirst | New York, NY

Contributed to developing web and mobile platforms for clinical and medical insurance, as well as telehealth consultations, aiming to replicate the in-person consultation experience as closely as possible.

- Collaborated closely with cross-functional team members, including data scientists and clinical engineers, to create software tools for data analysis and automation.
- Crafted pixel-perfect UIs using **React 18+** and **React Native** with Figma design.
- Integrated Bluetooth capabilities into native modules using **React Native**.
- Employed React and advanced frontend optimization techniques such as HOCs, custom hooks, and mono repositories, following best practices to enhance performance and reusability.
- Developed reusable components and services in **TypeScript** to consume REST APIs, leveraging the component-based architecture provided by **Next.js** and **React Native (TamaGui + Expo)**.
- Built a microservice backend infrastructure with an API gateway, load balancing, and **Kafka** for communication between services.
- Utilized **Node.js** for non-blocking I/O, Golang for concurrency and performance, and **Django REST** framework for rapid development.
- Implemented real-time applications using **Golang**, maintaining a consistent codebase with go-routines and channels.
- Integrated **AI/ML** capabilities into web applications using **Python** libraries such as **TensorFlow**, **Keras**, and **PyTorch**.
- Employed media optimization servers and tools alongside **CDNs** to reduce response time and provide high-quality videos and audio.
- Leveraged **Flask** to build lightweight applications and **Python SQL** libraries to connect to and perform **CRUD** operations on **MongoDB** and **MySQL**.
- Introduced **GraphQL** with **Apollo Client/Server** and **React Query**, and used **MongoDB** with **Redis Cache** to handle large amounts of data efficiently.
- Applied Redux Saga with actions and reducers to handle async API calls and utilized **Zustand** for better performance and efficient global state management.
- Conducted unit and integration testing with **Jest**, **Mocha**, **Chai**, **Enzyme**, **Jasmine**, and **react-test-renderer**.

- Implemented CI/CD pipelines using **Terraform**.
- Followed Agile/Scrum methodology with JIRA. Utilized Git for version control and Jenkins for continuous integration of builds.
- Utilized various Amazon Web Services, including **AWS S3** for large collection storage, **EC2 & Lambda** for microservice architectures, **Amplify**, **Cognito**, **SNS**, and **DynamoDB**.
- Mentored junior developers through code reviews and pair programming sessions.
- Provided constructive feedback on pull requests, enhancing overall code quality and collaboration.

APR 2018 – MAR 2020

## Staff Software Engineer | Fluz | New York, NY

Implemented a financial cash-back mobile application to maximize value and save money for consumers and built CMS & CRM web apps to manage customer and transaction data.

- Secured sensitive information using cryptographic algorithms to ensure trustworthy cybersecurity.
- Developed a **React Native** fintech mobile application for iOS using **Expo**.
- Added push notifications and deep linking features.
- Leveraged React Native's "out-of-the-box" compiler to architect a responsive, scalable, and cross-platform mobile application.
- Enabled various funding sources, including bank accounts, debit and credit cards, and crypto tokens, through third-party APIs like **Plaid**, **Stripe**, and **PayPal**.
- Constructed CMS and admin portals using **React**, **React Hooks**, **styled-components**, and **Redux**, increasing test coverage with **Jest** and **Enzyme**.
- Incorporated data visualization with modern chart libraries like **ForceGraph3D** to display intuitive and clean relationships and transaction frequencies between consumers.
- Protected sensitive API responses with masking mechanisms using Very Good Security Service.
- Created RESTful APIs using **Nest.js**, **Laravel**, and **Python Django REST framework**, and facilitated fetching complex data with **GraphQL/Apollo Client**.
- Built real-time chat applications using Python WebSockets.
- Retrieved near real-time stock prices using **React Query**, **Apollo Server** subscription, and **GraphQL**.
- Designed scalable and modular **GraphQL** by combining multiple existing APIs using **GraphQL Stitching** and Federation approaches.
- Conducted unit and integration testing with **Jest**, **Vitest**, **Mocha/Chai**, **Enzyme**, and **react-test-renderer**.
- Utilized GCP for cloud infrastructure and **PostgreSQL** for database management.
- Implemented CI/CD pipelines with GitHub Actions.
- Achieved cross-platform development using **React Native** and native bridging with **Swift** and **Kotlin**.
- Maintained a 95% test coverage with automated tests at the unit and environment levels.
- Employed **Redis** as a cache database.
- Interviewed candidates for senior positions.
- Updated legacy documents and codebase, and created onboarding guides using Jira Confluence and Engineering Wiki pages.
- Mentored team members to produce high-quality code and conducted code reviews to ensure adherence to best practices.

JAN 2016 – MAR 2018

## Senior Software Engineer | Apple | Santa Monica, CA

- Developed internal web applications for customer success and operations teams, supporting startup companies in bringing their ideas to fruition.
- Implemented microservice architectures to optimize API traffic, upgrading RESTful APIs using **Node.js**, **Phoenix (Elixir)**, and **Python Django REST framework**.
- Used React 16+, **AntD**, **Swift**, and **Tailwind CSS** for front-end development.
- Developed iOS applications with **Swift** and **React Native**.
- Built **Golang OpenTelemetry** Collectors for custom data collection (metrics, logs, traces).
- Debugged frontend applications using browser developer tools such as console, inspector, and network monitor.

- Addressed cross-browser compatibility issues in **React.js** using **react-app-polyfill** and **LightHouse**.
- Leveraged AWS services including **S3, SQS, Lambda**, and **DynamoDB**.
- Practiced Agile methodology in a Scrum-based environment, contributing to process refinement and team agility.
- Created automatic documentation generator tools in **Golang** for validating, rating, and updating customer integration documentation.
- Produced onboarding documents using **Confluence**.
- Conducted integration tests with **Golang** test containers to verify documentation examples.
- Collaborated with Apollo to develop conference apps enabling users to create meetings via web and mobile, integrating **Twilio API** and **Plaid** for subscriptions.

SEP 2012 – DEC 2015

## Software Developer | Weil&Jones | New York, NY

- Contributed to the development of various web applications, including the Trend Analysis Center App and Learning Assessment App, demonstrating a strong ability to quickly grasp and apply new technologies.
- Improved accessibility UI to enhance usability, ensuring seamless use for all users.
- Developed stable **React components** and standalone functions for future scalability.
- Created a custom reporting engine with graphical Excel output using the Excel **JavaScript API**.
- Optimized application performance through the implementation of efficient algorithms and appropriate data structures.
- Gained practical experience in Networking, Security, Protocols, Web server, and Cloud Computing utilizing PHP frameworks.

## Skills

JavaScript • TypeScript • React • React Native • Node.js • Express.js • Python • Django • Flask • Fast API • Java • Spring Boot • Python • Go • Ruby on Rails • GraphQL • REST APIs • C# • PHP • Next.js • Vue • Angular • Solid.js • jQuery • Nest.js • Laravel • MySQL • PostgreSQL • MongoDB • DynamoDB • Oracle • SQLite • AWS • Azure • GCP • Firebase • EC2 • S3 • Lambda • ECS • Cognito • RDS • DynamoDB • SQS • ELB • IAM • EBS • HTML • CSS • RPC • AJAX • JSON • Java/Kotlin • Swift • Flutter • Material UI • Tailwind CSS • Ant Design • Styled Components • Semantic UI • Git • SVN • Bitbucket • RabbitMQ • Apache Kafka • Active MQ • Jenkins • CircleCI • Terraform • Jest • Cypress • Mocha • Jasmine • React-test-render • Enzyme • Playwright • Vitest • WordPress • Builder.io • DatoCMS • Contentful • Sanity • HubSpot • Mentoring • Communication • Time management • Forward-thinking

## Education

AUG 2008 – AUG 2012

Bachelor of Computer Science | Columbia University | New York, NY