

Stuthi Balaji

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Education

University of California Irvine
Master of Science - Computer Engineering

Sept 2014 – Dec 2015
GPA - 3.58

RNS Institute of Technology, Bangalore, India
Bachelor of Engineering, Instrumentation Technology

August 2008 – May 2012
GPA - 3.85

Areas Of Interest

Building highly performant and scalable front-end web applications

Skills

Programming Languages

Javascript (ES6+), HTML, (S)CSS

Libraries & Frameworks

Typescript, ReactJS, React Hooks, NestJS, Tailwind CSS, GraphQL, REST, Apollo, URQL, Jest, React Testing Library, Cypress, MaterialUI, HeadlessUI, Webpack, Vite

Tools & Platforms

Git, Linear, Storybook, Chromatic, Figma

Experience

Cadstrom.io, Montreal, Quebec

Apr 2025 - Jun 2025

Senior Software Engineer

- Led a proof-of-concept (PoC) to migrate REST APIs to GraphQL using NestJS, demonstrating improved query efficiency and flexibility for frontend clients.
- Architected and initialized a new React application to serve as the client interface using GraphQL APIs, establishing the foundation for a scalable frontend platform.

First Resonance, Los Angeles, California

Mar 2021 - Mar 2025

Senior Software Engineer, Frontend

As the second frontend engineer on the product team, I primarily develop ION, an operating system for the manufacturing industry.

- Architectural decisions - Constructed features for managing vast amounts of data through virtualized tables, infinite scroll, and pagination resulting in a significant boost in user experience and customer satisfaction.
 - Developed a versatile, reusable table component utilizing react-table and react-window libraries.
 - Support rendering of an unlimited number of rows and provide functionalities like column resizing, pinning, sorting, filtering, and pagination.
 - Increased developer productivity and reduced turnaround time by more than 30%.
- Implemented, maintained, and enhanced design system components.
 - Established the essential components of the design system with the help of HeadlessUI and Tailwind CSS which is hosted on Storybook and packaged it as an npm library.
 - Improved developer experience by implementing snapshot and interaction testing of components with Chromatic allowing them to reuse these components confidently.
 - Automated test setup to run on Github CI pipeline.
- Enhanced the applications' performance by more than 50% by implementing client side caching using Apollo and URQL.
 - Significantly enhanced the user interface's interactivity by minimizing page reloads and favoring cache updates along with optimistic responses.

- Established the groundwork for caching and provided guidelines for the team to adhere to.

DriveWealth LLC, Jersey City, New Jersey

Jun 2020 - Dec 2020

Software Engineer – Frontend (Started as a full time engineer, continued as Independent Contractor)

- Led the development and re-architecture of the wealth management dashboard application, skillfully building reusable components using React, React Hooks, and Redux.
- Implemented features such as search, sort, filtering, pagination etc. on different dashboard views containing tabular data along with exporting the data in CSV format.

Freelance Software Engineer, New York

Nov 2018 - Jun 2020

- Designed and developed custom websites for boutique and medium sized suites
- Worked on building a music dashboard application using spotify APIs, to enable multiple users to connect to a host

Balbix Inc., San Jose, California

Nov 2017 - Nov 2018

Software Engineering

Responsible for architecting and developing user intensive dashboard features using ReactJS, Material UI, Victory Chart, Lodash, Javascript

eGain Solutions, Sunnyvale, California

Mar 2016 - Nov 2017

Solutions Engineer

Building customized web packages for small and medium scale suites