# Kaushal Kumbagowdana

925-922-2404

kaushalsk09@gmail.com

Portfolio LinkedIn

Github

### **SKILLS**

Languages: Javascript, Go, Typescript, Ruby, SQL, C#, Python, HTML5, and CSS3

Frameworks and Libraries: Node.js, Express, MongoDB, Ruby on Rails, PostgreSQL, Action Cables, React, Redux, .NET6, and AWS

Tools and Practices: OPP, TTD, Git, GitHub, REST API, and Webpack

### EXPERIENCE

#### Software Engineer / Research Associate

#### S2 Genomics | Livermore, CA

- Promoted from Research Associate to Software Engineer after 4 months based on high productivity efforts. .
- Designed and developed in-house R&D application utilizing .NET 6 and legacy code, resulting in efficient and . feature-rich workflow for cell and nuclei isolation experiments compared to commercial application.
- Implemented and contributed to the development of next-gen product software, enhancing instrument . communication for efficient diagnostics, calibration, temperature control, and cell/nuclei isolation protocols.
- Refactored commercial instrument's legacy code to enhance flexibility and improve protocol run time for cell and • nuclei isolation.
- Developed and integrated two troubleshooting scripts, resulting in faster and accurate troubleshooting process. Scripts were integrated into commercial instrument baseline process, improving assembly efficiency by 30%.
- Conducted thorough investigations to resolve software and device-related issues during instrument . troubleshooting.

#### PROJECTS

BINS | (React/Redux, Rails 7, PostgreSQL, ActionCable/Websockets)

- Employed the ActionCable WebSocket library to deliver seamless, high-performance user experience similar to Slack.
- Incorporated one-to-many polymorphic table integration at the database level, achieving DRYer backend code by • decreasing PostgreSQL database tables by 25%, and streamlined Rails concerns on the model and controller level.
- Implemented the React-Redux cycle to create a centralized global store that dynamically dispatches RESTful actions based on user location and integration status.

ViewFinder | (MongoDB, Express, React/Redux, Node.js)

- Collaborated with 4 engineers to develop a full-stack MERN application enabling photographers to showcase their work and discover new photography locations in California.
- Managed backend routes and database schema integration and design, and collaborated with front-end engineers • to implement efficient techniques to minimize response payload and enhance performance.
- Integrated server-side Google Maps API to implement reverse geocoding within backend router, streamlining user features and boosting user experience by 35%.

#### Faulty Rocket | (Vanilla Javascript, HTML Canvas)

- Spearheaded the creation and design of Faulty Rocket, typing game where players aim to exceed WPM thresholds in each level to launch a rocket into space.
- Adhered to Object-Oriented Programming (OOP) principles when architecting the design of the game.
- Implemented AJAX requests to random quote API and accurately calculated user WPM through custom error . detection algorithm.

#### **EDUCATION**

App Academy - Intensive 1000-hour full stack development boot camp with a < 3% acceptance rate, Oct 2021 - Jan 2022

California Polytechnic State University of Pomona - BS Biotechnology, 2017-2021

# Jun 2021 - Sep 2022

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