

# ASHIL FARAHMAND

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## SKILLS

Ruby on Rails, React, Stripe, PostgreSQL, Git, CSS, JavaScript, GraphQL, MongoDB, Node.js, NewRelic, TDD, AWS, Heroku

## EXPERIENCE

### Full Stack Software Engineer

Arcadia Power

May 2022 - Apr 2023

- Independently investigated gnarly Stripe transfer issue, designed & built solution that eliminated associated on-call alerts and saved ~10 people-hours/month, then wrote a comprehensive retro for stakeholders
- QAed Rails, GraphQL, and React apps for new MPE feature then scoped tasks to add missing functionality
- Documented and diagrammed all solar and utility remittance flows for mentoring new engineers
- Created implementation plan for migrating ACH service from Silicon Valley Bank to a new provider

### Full Stack Software Engineer

GiveCampus

Dec 2018 - Nov 2020

- Led engineering initiative to build an automated invoicing tool to generate invoices and interface with Quickbooks API thereby freeing at least 50 people-hours/month
- Optimized server code and SQL queries across the codebase to reduce processing delay by up to 95%
- Performed major refactor of matching gift code into a separate service via TDD using rSpec
- Upgraded Stripe API payment processing code collaboratively with engineering team
- Rapidly responded to partner support tickets by hotfixing bugs and deploying to Heroku

## PROJECTS

### Quikstarter

[Live Site](#) | [Github](#)

*A single-page app that clones features of Kickstarter.com using a React/Redux frontend and Ruby on Rails backend*

- Designed a rapid search feature that triggers AJAX search requests in response to user keystrokes
- Implemented a discovery feature by using a custom route to access projects by category via a RESTful API
- Implemented a secure authentication feature by storing BCrypt hashed passwords in a PostgreSQL database
- Used Webpack to bundle and transpile assets

### Commodity Analyzer

[Github](#)

*A JavaScript app that charts user selected commodity data and displays related statistical information*

- Created a JavaScript ES6 app that graphs prices of user selected commodities
- Coded an algorithm to plot the change in consecutive day closing prices to identify large price moves
- Used chart.js to display the probabilities of consecutive day price changes to identify improbable conditions

### Roommez

[Github](#)

*A single-page app that connects groups with roommates using React/Redux frontend with Node.js backend*

- Led architectural planning including creation of MongoDB schemas, state shape, front and back end routes, and component hierarchy
- Designed an algorithm that dynamically searches for compatible users based on group member's composite preferences and seamlessly responds with user information via an API

## PUBLICATIONS

Farahmand, Ashil Sayyed, and Lamine Mili. "Cooperative Decentralized Intersection Collision Avoidance Using Extended Kalman Filtering." In *Intelligent Vehicles Symposium, IEEE*, pp. 977-982. IEEE

## EDUCATION

### Virginia Polytechnic Institute and State University

BS/MS Electrical Engineering