

# FARAH QUADER

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**SKILLS**   Python, Node.js, Ruby on Rails, SQL, JavaScript, PostgreSQL, React.js, Redux, Git

## PROJECTS

**CodeUp Trivia** | *(Node.js, Firebase, Dialogflow, Actions On Google)*

[live](#) | [demo](#) | [github](#)

Collaborated to create a voice activated app live on Google Assistant.

- Utilized Node.js to communicate between customized Dialogflow prompts and responses while tracking score, questions, and answers.
- Denormalized Firebase database schema for faster access to answers associated with a particular question to improve user experience.
- Designed algorithm that efficiently selects and randomizes answer choices based on selected language and current question.
- Trained Google's Dialogflow AI to parse user speech input and to output appropriate responses to facilitate natural conversation flow.

**LiftOff** | *(React/Redux, Rails 5, PostgreSQL, HTML, CSS 3, Sass, Webpack, AWS, Heroku)*

[live](#) | [github](#)

Fullstack project creating website for crowdfunding campaigns.

- Created custom backend routes to optimize database queries and fetch only relevant data.
- Maintained ACID principles by ensuring that all transactions are successfully completed before persisting to database.
- Leveraged JBuilder and Redux unidirectional data flow to create predictable, normalized state and reliable DOM rendering.
- Utilized higher order React components to render various modals throughout site to DRY up code.

**Flocky (in progress)** | *(JavaScript, HTML Canvas, CSS3)*

[github](#)

Dynamic visualization of flocking behavior.

- Develop a custom physics engine that prevents object collisions and manages the converging and diverging patterns of birds while flying based on proximity and speed.
- Create options panel for user to adjust speed and proximity parameters.

**Data Automation GUI** | *(MS VBA, NI LabView)*

- Created interactive graphical user interface for technicians and engineers to analyze data as needed.
- Improved data collection and analysis efficiency by over 75% allowing for increased productivity.

## EDUCATION

**App Academy** - Summer 2018

- Immersive software development program with focus on full stack development.
- Rigorous program that accepts less than 3% of all applicants.

**University of California, Davis** - Summer 2012

- BS Chemical Engineering

## EXPERIENCE

**Test Engineer**

*Oorja Fuel Cells, Inc.*

Dec 2013 - June 2017

- Automated data collection and analysis on all engineering test stations increasing data analysis efficiency by over 75% by creating a graphical user interface with MS VBA.
- Identified products that met technical specifications and tested prototypes while implementing quality control procedures.
- Created and implemented fuel cell testing protocol for R&D and engineering efforts.
- Performed tests for long-term durability, short-term performance evaluation, ambient temperature/humidity effects, and contamination effects.

**Associate Systems Engineer**

*LightRiver Technologies, Inc.*

Sept 2012 - Dec 2013

- Designed telecommunications networks based on customers' requirements.
- Collaborated with field engineers for remote implementation.
- Performed detailed engineering by comparing equipment specifications and cost versus budget to create solutions for customers.