

Juwon Cha

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SKILLS

- **Languages**

Proficient: Ruby, Python, Java, Javascript, HTML, CSS; Familiar: C

- **Technologies**

Rails, React, Bootstrap, jQuery, PostgreSQL, MySQL, SQLite, AWS, git, Cucumber, RSpec, Haml

EDUCATION

- **Self-Taught, UC Berkeley Computer Science**

*Courses Completed: The Structure and Interpretation of Computer Programs, Data Structures, Software Engineering
Currently Studying: Machine Structures, Introduction to Database Systems*

- **Rutgers University**

New Brunswick, NJ

Bachelor of Arts (Majors: Economics, Cell Bio/Neuroscience, Psychology, English)

2018

PROJECTS

- **Agora: Local Market**

Web Application

Ruby on Rails, Bootstrap, AWS

Work In Progress

- **Private Market:** Provide utility for online communities to create a private market accessible either through password or hyperlink. Filling the need for a sort-able, organized solution for forum based groups.
- **Public Market:** Provide a marketplace where local and home-based businesses can create storefronts for local customers to browse. Found an absence of aggregation and browse-ability of micro-businesses.
- **Features:** Implemented ground up secure login without third party gem. Email activation. Following other users. Homepage feed.

- **WikiEducationFoundation: WikiEduDashboard**

Web Application

Ruby on Rails, Bootstrap

Open Source Contribution

- **Work Involved:** Reconfigured the user profile model and the display to allow other options of a profile image as well as an option to delete. Created necessary Rspec tests. Familiarity with the issue tracker workflow. Basic Git and Bash. Discussion of alternate solutions and design decisions.

- **Practice Web Applications**

Ruby on Rails, Bootstrap, Python, Java

- **Human. Nature.:** A website interfacing with the Reddit API through JSON requests to pull and display top content in an aesthetically pleasing way. Deployed on my homepage.
- **Twitter Clone:** Users can create micro-posts, follow other users, view their followers, and receive a homepage feed of followed users' posts. Features: Implemented ground up secure login without third party gem. Email activation.
- **Rotten Potatoes:** A movie aggregation and review submission site. Single sign on. Interface with third party API. JQuery enhancements.
- **Google Maps Clone of Berkeley:** Created backend map rastering program at continuous zoom levels. Parsed XML OpenStreetMap data to add location/street data. Used A* search algorithm to provide turn by turn directions between addresses/locations. Implemented a trie for efficient location search autocomplete.
- **Other Projects:** Tilebased Game with Simple AI, Percolation Simulation: percolation threshold through Monte Carlo simulation, NBody Gravitational Simulation, Seam Carving: content-aware image resizing program, Puzzle Solver: A*, Scheme Interpreter, Yelp Maps: Machine Learning of Yelp Academic Dataset (k-means algorithm)

EXPERIENCE

- **Author/Publisher:** Published series of novels with team of editor and graphic designer. Held daily meetings, similar to Agile/Scrum. Organized team using Slack and Trello. Used Facebook ads, social media presence, and email marketing, to gather subscribers. Maintained large subscriber list. Managed relationships with bloggers and communities.
- **Other Entrepreneurial History:** Event ticket reseller: managed a revenue stream of \$30,000 with %40 profits for two years. Options trader: family and friends fund beating S&P index for three years. Rare/old books and periodicals EBay store: purchased inventory, managed online store and warehouse.
- **JEI Teacher/Administrative:** Managed classrooms up to 10 in size. Held private tutoring sessions. Drew up lessons in Math, English, and Science for ages five to 14. Organized teaching and administrative systems. Planned for possible transfer and purchase of franchise.