

Albert D. Chen

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SKILLS

JavaScript, React, Redux, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, AWS, ImageJ, R, MatLab, HTML, CSS

PROJECTS

Yike (Ruby, Rails, React, Redux, Javascript, AWS, Heroku, HTML, CSS, PostgreSQL, Git)

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

Full-stack, single page e-commerce web application where a user can search for and “buy” their favorite sneakers

- Built models and associations on a Ruby on Rails backend using HTTP REST methods for CRUD actions in order to link specific items in PostgreSQL to a user’s shopping cart.
- Improved user experience through multiple dynamic routes created by React-Router to specific aesthetically CSS styled pages
- Connected Rails backend to Amazon Web Services S3 (AWS) for seeded photos to optimize file storage and performance, while maintaining content security through AWS IAM.
- Customized back and front end user authentication by combining Rails conventions, Active Record, and React-Router.

WeHaul (Rails, React, Redux, Javascript, HTML, CSS, Git, MongoDB, Express.js, Node.js)

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

MERN, single page web application where a user can request a hauler to drive and help move items

- Exercised Google Maps Autocomplete API and Mapbox API in order to create map routes to be displayed to drivers.
- Implemented back and front end user authentication by utilizing a combination of Express.js, Mongoose, React/Redux components and Axios calls in order for drivers to be able to see every available request and update it, and for users to only see their current request’s status.
- Collaborated with a group of peers to create and breakdown this project with the use of Git workflow.

Hokage (Javascript, HTML5 Canvas, Webpack, Git)

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

Javascript, single page infinite run game utilizing Javascript and HTML5 Canvas

- Processed various logic in order to display certain actions of the character through Javascript event listeners and different class components to manipulate the Javascript DOM through rerenders.
- Animated characters to bring 2D images from a sprite sheet to life with a Parallax background and customized Javascript functions based on HTML5 Canvas positioning.

WORK EXPERIENCE

Altman Clinical & Translational Research Institute, University of California, San Diego

San Diego, CA

Graduate Researcher

Aug 2018–June 2019

- Defended thesis on “Effects of Osmotic Pressures and TRPV-4 Inhibitors on Calcium Levels in Dorsal Root Ganglion Cells”
- Learned and applied protocols for euthanizing mice and harvesting dorsal root ganglion under a microscope for research
- Investigated the relation and effects between TRPV4 Inhibitors and dorsal root ganglion cells through calcium imaging for use in the lab’s tau research grant
- Applied analytic techniques through ImageJ, MatLab, Excel, and Prism to process calcium imaging videos for further analysis

EXELIXIS

Alameda, CA

Assistant Research Scientist I – Internship

June 2018–Sept 2018

- Learned about Mosaic inventory system and how to process substances into the system, and accomplished processing approximately 35,000 compound vials stored in a 4° environment
- Worked with Hamilton Verso automated sample management system to simplify daily workflow and meet the demands of compound management for substances needed to be stored in -20° freezer

EDUCATION

App Academy

San Francisco, CA

Software development course with a focus on full-stack web development, entailing 1000+ hours of coding.

June 2020–Sept 2020

University of California, San Diego, College of Engineering

San Diego, CA

Master of Science in Bioengineering

Sept 2017–June 2019

Case Western Reserve University, College of Engineering

Cleveland, OH

Bachelor of Science in Biomedical Engineering

Sept 2013–May 2017