

WILLIAM CHAN

FULL-STACK SOFTWARE ENGINEER

CONTACT

-  (510) 371-2279
-  wcchan@ucdavis.edu
-  [linkedin.com/in/willchan8](https://www.linkedin.com/in/willchan8)
-  github.com/willchan8
-  San Francisco Bay Area, CA

SKILLS

Front-End: Javascript (ES6+),
React, React-Native, HTML5,
CSS3, Webpack, jQuery,
Bootstrap

Back-End: Node.js, Express,
MongoDB, PostgreSQL, MySQL,
GraphQL, Nginx

Other: AWS, Docker, Heroku, Git,
GitHub, Mocha/Chai,
Jest/Enzyme

EDUCATION

University of California, Davis
Bachelors of Science in
Chemical Engineering
June 2014

Hack Reactor

Advanced Software Engineering
Immersive
July 2019

PROJECTS

Full-Stack Software Engineer | OpenSeats

Tech Stack: Node.js, Express, PostgreSQL, Cassandra, Nginx, AWS EC2, K6, Loader.io, New Relic

- Scaled the backend of a reservation module to handle production level traffic with an average latency of <100 ms and an error rate of 0%
- Optimized the performance of PostgreSQL database pre-cached query execution speeds from 14 ms to 2 ms using B-tree indexing
- Horizontally scaled micro-service across multiple AWS EC2 instances using an Nginx Load Balancer to improve throughput from 250 RPS to over 1100 RPS
- Performed stress tests with Loader.io and used New Relic to analyze metrics and identify bottlenecks

Full-Stack Software Engineer | HackerHome

Tech Stack: React, Node.js, Express, MongoDB, HTML, CSS Grid, CSS Modules, Webpack, Docker, AWS EC2, Jest, Enzyme

- Developed an interactive and responsive photo gallery/carousel module using React and CSS Modules
- Improved micro-services, proxy server, and database using Docker and AWS EC2 to expedite module integration and scalability
- Optimized Google PageSpeed Insights score from 57 to 99 by minifying production code and performing lossless compression of photos

Mobile Software Engineer | BobaBuddy

Tech Stack: React-Native, React-Navigation, GraphQL, Expo, Express, Node.js, MongoDB Atlas, Heroku

- Developed a mobile UI/UX using React-Native that allows users to discover, save, and navigate to nearby boba shops
- Utilized GraphQL to dynamically fetch relevant data from the Yelp API based on the user's current location
- Implemented stack and tab navigators using React-Navigation to allow seamless navigation between multiple screens
- Created REST APIs using Express, Node.js, and MongoDB Atlas and deployed service to Heroku

EXPERIENCE

Validation Engineer

Delta Project Management | 2017 - 2019

- Executed validation activities to ensure equipment and systems meet the criteria to be released for production
- Generated test protocols that comply with user requirement specifications and industry regulations
- Led and managed concurrent projects across multiple client sites while consistently delivering within established budgets and deadlines

Process Engineer

Genentech | 2015 - 2017

- Provided on-call engineering support for the large-scale production of bulk drug substances
- Analyzed process data and automation code to troubleshoot production issues
- Coordinated with multiple teams to spearhead project activities and implement changes to improve manufacturing efficiency