

Janson Chiu

☎ (650) 942-5297 | ✉ jansonchiu343@gmail.com | 🏠 jansonchiu.github.io | 🌐 jansonchiu | 📺 jansonchiu | 🇺🇸 USA Citizen | 📍 San Francisco, CA

Education

University of California, Santa Cruz

Santa Cruz, CA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.6

Sept. 2017 - Dec. 2020

- **Relevant Courses:** Algorithms and Data Structures, Distributed Systems, Operating Systems, Advanced Programming in C++, Web Applications, Machine Learning and Data Mining, Computational Models, Computer Architecture, Discrete Mathematics, and Linear Algebra

Experience

Expedia

Seattle, WA

SOFTWARE ENGINEERING INTERN

June 2020 - August 2020

- Upgraded a financial reporting analytics tool by consolidating dashboards for completeness and accuracy of transaction data in microservices on a single User Interface using MVC design and dependency injection enabling an ops team to spot trends and failures with ease.
- Built and implemented an API layer that provides financial transaction data stored in AWS RedShift to a React UI through HTTP Requests.
- Categorized essential system alerts to notify developers of top 31% potential critical failures before they occur using AWS CloudWatch / CloudFormation and PagerDuty.
- Created AWS RedShift Queries to grab last received event date allowing users to pinpoint when AWS Lambda emitted data to the Database.
- **Knowledge Leveraged:** React, AWS CloudFormation, Spring, Amazon RedShift, PagerDuty, AWS Secrets Manager, AWS CloudWatch, Jenkins, JUnit, JIRA, Confluence, KUMO, Java, SQL, JavaScript, Git, Design Documentation, Unit Testing, Code Reviews, Webpack, ESLint, ES6

UCSC Engineering Lab

Santa Cruz, CA

UNDERGRADUATE RESEARCH LEAD

April 2019 - June 2020

- Developed a web application, Causeway, that teaches web development while simultaneously allowing novices to work on programming-oriented community service projects.
- Increased the file fetch and load speed by 150% in our web application's code editor by creating a new service using Stackblitz API.
- Redesigned, tested, and implemented two main features, Classroom and Studio. Accomplished by creating product briefs and designs, developing using Travis CI, a continuous integration service, and conducting usability and interface tests.
- Maintained and updated legacy code resulting in improving the computational speed of the web application.
- Developed a forum help feature using Docker, DigitalOcean, and Mailgun allowing users to peer support.
- Led, managed, and mentored Web Development and User Experience teams in implementing a chat feature and improving User Interface.
- **Knowledge Leveraged:** Angular, Redux / ngRx, TypeScript, Google Firebase, DigitalOcean, Docker, Stackblitz API, Travis CI, HTML, SCSS

UCSC Engineering Lab

Santa Cruz, CA

UNDERGRADUATE RESEARCH ASSISTANT

Jan. 2019 - Mar. 2019

- Implemented front-end components within the main page of Compass, a web application based on career development, goal setting, and personal reflection using Typescript and HTML / SCSS.
- Created interactive code examples with Codepen and improved HTML, SCSS, and TypeScript tutorials based on usability tests.
- **Knowledge Leveraged:** Angular, Google Firebase, TypeScript, Stackblitz API, Git, Figma, Travis CI, HTML, SCSS, npm, CodePen, Scrum

Projects

Distributed Data Storage (Python)

- Implemented a REST-accessible, sharded, replicated, fault-tolerant key-value store in Flask on a collection (subnet) of Docker instances.
- Key-value store supports standard CRUD operations and provides causal consistency via vector clocks.
- Additional CRUD endpoints also included to access a replica's view of the entire store and their specifically-assigned shard.
- **Utilized:** Python, Docker, REST API, Flask, Bash Scripting, Unit Testing, White-box testing

AlcAlert (Python / Swift)

- Developed an Apple Watch Application that allows users to easily keep track of alcoholic beverages consumed in one night.
- Utilized a supervised Recurrent Neural Network to detect beverage consumption using Tensorflow and Keras.
- Paired an Accelerometer and Arduino to generate and label beverage consumption data.
- **Utilized:** Swift, Keras, TensorFlow, Python, Arduino, Accelerometer

GymPad (Android)

- Designed and deployed an Android gym tracker application to Google Play Store for users to record and keep track of their gym workouts.
- Implemented a SQLite Database to locally add, remove, and edit weekly user workouts.
- **Utilized:** SQLite, Java, XML, Android Studio, Adobe XD

Slug Study (Web App)

- Supplemental Tutoring Web Application designed for students to find tutors and tutors to post their services.
- Created the backend service using Flask and REST which interacted with SQLite Database for creating tutor requests.
- **Utilized:** JavaScript, SQL Alchemy, SQLite, Google Calendar API, Python, JQuery, HTML, CSS, Agile

Skills

Languages Java, Python, JavaScript, TypeScript, SQL, C++, C

Technologies AWS, Google Firebase, Spring, Tensorflow, Keras, Angular, React, Vue, Redux, rxJS, Flask, Docker, DigitalOcean, jQuery, SQLite

Software Git, Jenkins, Travis CI, KUMO, JUnit, Confluence, Unix, Adobe XD, Figma, Android Studio