Jonasen Chang

Full-Stack Software Engineer

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EDUCATION

University of California San Diego   San Diego, CA
Bachelor's in Computer Science   Sept 2018 - June 2022
Cumulative GPA: 3.8

SKILLS

Languages	Python, C++, Java, JavaScript, Swift, HTML, CSS, SQL/NoSQL, Golang
Technology	Node.js, React Native, REST API, AWS Services, Unix, XCode, SwiftUI, GitHub, GNU Debugger (GDB), Docker
Practices	DevOps, Object-Oriented Programming, Unit Testing, Agile, Version Control, CI/CD Pipelines, GitHub Code Reviewing, Refactoring, Jira Ticketing

TECHNICAL EXPERIENCE

Quintrix iOS Developer Professional Apprenticeship   **Summer 2023**
- Collaborated with 15 software engineers in developing functional **iOS** applications in an **Agile** environment, utilizing **Jira** tickets and **GitHub** version control to coordinate collaborative efforts.
- Developed functional and useful iOS applications in **XCode** IDE and **Swift**. Examples include weather-by-location, movie database searching, recreating Facebook's UI, displaying held stocks per user, etc.
- Utilized the **MVVM** model to decouple and abstract code logically, and integrated **API calls** using Swift's **Combine** framework to retrieve necessary data from a remote endpoint.
- Designed user interfaces in **SwiftUI** to create aesthetic front-end views for applications.

KNEAD IT Web Application   **Spring 2022**
- Refactored an existing application with user logins, state management, and **Firebase** database interactions to perform additional functions such as marking favorite recipes and adding personal comments.
- Utilized **Agile** practices to collaborate and efficiently refactor an existing application to deploy an improved application given a 10-week time constraint.
- Designed algorithms and interfaces for read/write operations on the database, and provided for user navigation between pages via query strings using **JavaScript**.
- Created the client-facing user interface for the application in a clean, coherent manner using **React**.

UPick Web/Mobile Application   **Fall 2020**
- Designed and developed an application in **JavaScript** using **React Native** that dynamically generates a restaurant suggestion based on the user(s) dietary preferences.
- Collaborated in an **Agile** environment with 10 peers of different fields and skill-sets to design app functionality, and cooperate to create a functional app within 10 weeks.
- Integrated the project's various components and functionality into one coherent application using **React Native**.
- Simulated online group functionality through specified room codes using **Firebase** cloud database.

SurfStore Cloud Storage Service Project   **Fall 2021**
- Implemented a cloud-based file storage system using **AWS EC2** servers to sync files between multiple local clients and a remote server.
- Established a connection using **Golang** with the remote server from a client to compare file versions and transfer data across the remote connection.
- Implemented **logical clocks** to determine file version and prevent **race conditions** through storing an index of all files with an updated version number.

CERTIFICATIONS

- Amazon Web Services (AWS) Certified Cloud Practitioner   *Aug 15, 2023*