Joshua Jusay

EDUCATION

U.C. San Diego - Mathematics – Computer Science B.S.   **Dec. 2020**

Relevant Courses: Software Engineering, Advanced Data Structures, Algorithms, Object-Oriented Programming, Cryptography, Computer Organization & System Programming, Graph Theory, Theory of Computation,

WORK EXPERIENCE

Software Engineer – Pinned   **Nov 2019 – Present**

Technologies: Swift, Firebase, XCode, HTML, CSS, Visual Studio Code, Docker, Kubernetes

- Currently developing a website and iOS scavenger hunt application.
- Employed Google Firebase to integrate secure user authentication and signup and store user information.
- Designed UI for iOS application to mirror components on the Pinned website.

Senior Tutor – San Diego Miramar College   **Jan 2016 – Present**

Technologies: Java, C++, Eclipse IDE, VIM, Unix

- Lead one–on–one tutoring for Java and C/C++ Programming.
- Spearheaded group study sessions and one-on-one tutoring in mathematics from Algebra to Differential Equations.

PROJECTS

YouPick iOS Application

Technologies: Swift, Firebase, XCode, Adobe Illustrator, Adobe Photoshop

- Developing a full-stack iOS application using Swift for restaurant discovery.
- Utilized Google Firebase for backend and Foursquare API to collect restaurant information.
- Employed Adobe Illustrator and Photoshop to create UI image elements.

Electric Vehicle Cost Optimization

Technologies: Java, IntelliJ, Junit

- Implemented a program in Java which generated a graph with weighted edges that modeled the total costs of purchasing and charging an electric vehicle at various charging options.
- Conducted research on vehicle and charger data and formulated cost functions.
- Used Dijkstra's algorithm for the implementation to find vehicle and charger combination with minimized cost.

Water Temperature Scraper

Technologies: Python, Visual Studio Code

- Devised a program in Python that provides real-time water temperature data from beaches in SoCal.
- Utilized the Beautifulsoup library to scrape data from NOAA's website and produced a more precise temperature reading than forecasting websites for a better grasp of conditions.

SKILLS

Languages: Java, C/C++, Python, Swift, HTML, CSS, NoSQL
OS: Unix / Linux, MacOS
Applications: Firebase, Git/GitHub, Visual Studio Code, IntelliJ, Eclipse, XCode, Junit, Docker, Kubernetes