

# Joshua Jusay

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## EDUCATION

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### University of California, San Diego - Mathematics – Computer Science B.S.

Dec. 2020

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

### San Diego Miramar College - Pre-Engineering Studies A.S.

May 2018

### San Diego Miramar College - Mathematics Studies A.A.

May 2018

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## WORK EXPERIENCE

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### Software Engineer – Pinned

Nov 2019 – Present

- Currently developing a website and iOS application that allows users to compete with friends through completing scavenger hunts around their community.
- Employed Google Firebase to add user authentication and store user information.
- Created UI for iOS application to mirror components on the Pinned website.

### Senior Tutor – San Diego Miramar College

Jan 2016 – Present

- Lead one-on-one tutoring for Java Programming.
  - Lead group study sessions and one-on-one tutoring in Mathematics from Algebra to Differential Equations.
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## PROJECTS

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### YouPick iOS Application

- Developing an iOS application that allows users to create a group of people and swipe right or left on restaurants within an area. Restaurants that reach a certain threshold of right swipes within the group are displayed as a match.
- Utilized Google Firebase for backend and Foursquare API to collect restaurant information.
- Employed Adobe Illustrator, Photoshop, Lightroom to create UI image elements.

### Electric Vehicle Cost Optimization

- Designed and developed a program in Java which produces a graph with weighted edges that describe the costs of purchasing and charging an electric vehicle at various charging options.
- Utilizing Dijkstra's algorithm with a priority queue, implementation finds the vehicle with lowest combination of purchase price and charging cost at given distances driven.

### Portfolio Website

- Developed a portfolio website to showcase skills, projects, and experience that utilized a template from GitHub and hosted on GitHub Pages.
- Employed HTML, CSS, and JavaScript in order to manipulate and customize template to desired UI.

### Water Temperature Scraper

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

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**Languages:** Java, C/C++, Python, HTML, CSS, JavaScript, Swift, SQL

**OS:** Unix / Linux, MacOS

**Applications:** Firebase, Docker, Kubernetes, Git/GitHub, Visual Studio Code, IntelliJ, Eclipse, XCode, Junit, Google Test,