

# 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, Data Structures, Algorithms & System Analysis, Software Tools, Computer Organization & System Programming, Graph Theory, Theory of Computation

Current Courses: Advanced Data Structures, 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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### 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
  - Assisted students with campus resources and tutoring appointments
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## PROJECTS

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### 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 an implementation of Dijkstra's algorithm with a priority queue
- Implementation finds the vehicle with lowest combination of purchase price and charging cost at given distances driven.

### N-Gram Viewer

- Developed an N-Gram Viewer where a user can query words from text files with given years and displays the frequency of those words in each year in a graph
- Implemented viewer with Java using hash maps and an open-source chart library to create graph

### Water Temperature Scraper

- Created a program using Python that provides real-time water temperature data from beaches in SoCal
  - Scrapes temperature data from the National Ocean and Atmospheric Administration's website
  - Utilized the BeautifulSoup library and produced a more precise temperature reading than weather forecasting websites for a better grasp of conditions
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## SKILLS

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

**OS:** Unix / Linux, MacOS, Windows

**Applications:** Visual Studio Code, IntelliJ, Eclipse, Junit, Google Test, Git/GitHub, Docker, Microsoft Office