

# Minh Duong

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## EDUCATION

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### University of California, San Diego

Expected graduation: 12/2024

*Bachelor of Science in Computer Science*

**Coursework:** Data Structure, Object-Oriented Programming, Algorithms, Software Engineering, Recommendation System and Data Mining, Data Science

**Awards:** Gold Medal in the MapMyFuture project, surpassing 30 others.

### Ohlone College

Graduated: 06/2022

*Associate of Science in Computer Science*

GPA: 3.93 (Highest Honor)

## CERTIFICATIONS

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JPMorgan Software Engineering Virtual Experience Program (Forage)

August 2023

Teaching Computation in the Digital World (Coursera)

December 2022

Python for Data Science and AI (Coursera)

February 2024

## EXPERIENCE

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### Ohlone College Tutor Center

08/2021 – 05/2022

*Academic Tutor*

- Worked within a collaborative team of 3-4 tutors, providing comprehensive support and clarification on course content, assignments, and materials for introductory to advanced CS courses, ranging from basic principles to data structures.
- Specializes in helping students answer questions and challenges about C++ and Java from exercises, facilitating understanding and application for more than 50 students each semester.

## PROJECTS

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### MapMyFuture | *HTML, CSS, JavaScript, Git, GitHub*

- Collaborated with a team of 10 members to develop a user-centric Fortune Teller app, ensuring the fulfillment of anticipated user needs and preferences.
- Leveraged Agile Development methodologies to efficiently manage project workflows, ensuring timely progression and robust tracking of project milestones.
- Achieved **Gold Medal** for the class out of 30 projects.

### Graph | *C++*

- Developed a comprehensive Graph class in C++ encompassing fundamental graph properties, pathfinding algorithms (both unweighted and weighted), and connected components analysis.
- Implemented advanced algorithms like Breadth-First Search and Dijkstra's Algorithm for efficient pathfinding and devised a method for determining the minimum threshold to connect graph components.

### Early Alcohol Exposure and Its Impact on Adolescent Academic Achievement | *Python, Git, GitHub*

- Led a 5-member team in a data science research project to analyze the impact of early alcohol consumption on the mental health and academic performance of adolescents aged 15-22.
- Utilized **Python** and **data science libraries** for in-depth analysis of early alcohol exposure's effects on youth, integrating EDA, regression, and visualization to highlight its impact on education and relationships.
- Managed the project's **GitHub**, facilitating collaboration and issue-based task management, leading to the publication of our findings on underage drinking in the university's cognitive science newsletter.

### Alphabetical Game | *Java*

- Led a 4-member team to develop and enhance the user's experience with an intuitive GUI tailored for kids.
- Created a leaderboard to track user scores, showcasing competitive features.
- Leveraged advanced data structures for efficient storage and retrieval of in-game details.

## SKILLS

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- **Technical Skills:** Java, Python, C++, HTML5, CSS3, JavaScript, MySQL, MATLAB, Shell, Bash, CLI, LaTeX
- **Tools Mastered:** Git, VSCode, Visual Studio, Jupiter Notebook, Eclipse, PyCharm
- **Operating Systems:** Windows, Linux (Ubuntu), Unix.