Minh Duong

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EDUCATION

Ohlone College **Graduated: 06/2022**

Associate of Science in Computer Science GPA: 3.93 (Highest Honor)

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.

CERTIFICATIONS

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

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

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

- **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.