Minh Duong

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Skills

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

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**

Awards

Gold Medal in the MapMyFuture project, surpassing 30 others.

Education

University of California, San Diego **Expected graduation: December 2024**
Bachelor of Science in Computer Science
Coursework: Data Structure, Object-Oriented Programming, Algorithms, Software Engineering

Ohlone College **Graduated: June 2022**
Associate of Science in Computer Science GPA: 3.93 (Highest Honor)

Experience

Ohlone College **August 2021 – May 2022**
Academic Tutor

- Collaborated with a team to support and clarify course contents, assignments, and materials for over 50+ introductory CS 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.

Performance Optimal | C++

- Proficiently applied principles of instruction-level and memory-level parallelism, enhancing computational efficiency and throughput by strategically optimizing and synchronizing concurrent processing tasks.
- Demonstrated advanced skills in leveraging the performance equation, Amdahl's Law, and parallelism concepts for effective system optimization, resulting in significant improvements in overall program performance and operational efficiency.

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.