

Nathan Nguyen

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EDUCATION

University of California, San Diego

Bachelor of Science Major in Computer Science

Expected June 2026

Relevant Coursework: Advanced Data Structures, Software Engineering, ML: Learning Algorithms

Diablo Valley College, Pleasant Hill

Associates in Science in Computer Science

Aug 2021 - Jun 2024

Relevant Coursework: Program Design and Data Structures, Object Oriented Programming C++, Assembly Language Programming/Computer Organization

PROJECTS/EXPERIENCE

FlowLauncher Plugin, Personal Project

- Developed a custom Flow Launcher plugin in C# to control and launch the Brave browser.
- Implemented command parsing, action dispatch, and result rendering within Flow Launcher's plugin framework.
- Integrated external application launching with reliable process execution.
- Focused on usability and performance for quick keyboard-driven workflows.
- Applied object-oriented design principles to maintain clean, extensible plugin code.

Matching Game Web App, Course Group Project | Back-end Developer

- Implemented a multi-difficulty matching game using HTML, CSS, and JavaScript, emphasizing responsive UI and interactive game logic.
- Developed and integrated core game mechanics, including card state management, event handling, difficulty scaling, and score management.
- Collaborated with front-end development team to connect UI components with back-end logic
- Designed and maintained a CI/CD pipeline to automate testing and ensure consistent builds during development
- Applied Agile development practices, including iterative development and regular team check-ins

Academic Data Science Project, Course Project | COVID-19 Impact on Film Industry

- Designed and implemented a data analysis pipeline in Python to study changes in film genre performance pre- and post- COVID-19.
- Processed, cleaned, and transformed large datasets using Pandas and NumPy, ensuring data integrity and consistency.
- Performed exploratory data analysis to identify trends, distributions, and anomalies across multiple time periods.
- Developed data visualizations using Matplotlib and Seaborn to effectively communicate insights.
- Collaborate in a team environment using modular task division and iterative feedback to refine the project.

ADDITIONAL

Technical Skills: Python, HTML, JavaScript, C++, C#, Java, Git & Github, VS Code, Unix environment, Numpy, Matplotlib, Pandas, Tkinter