

Michelle Ashley R. Navos

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SKILLS

Programming Languages: Python, Java, C, R

Frameworks/Libraries: MongoDB, Express, ReactJS, NodeJS, Plotnine, Pandas, Scikit-Learn

Data/Development Tools: MySQL, VSCode, Git

EDUCATION

California Polytechnic State University, San Luis Obispo, CA

Anticipated Graduation: June 2027

Bachelor of Science in Computer Science, Minor in Data Science

- **Awards and Honors:** Dean's List
- **Relevant Coursework:** Project-Based OO Programming and Design, Data Structures, Design and Analysis of Algorithms, Systems Programming, Introduction to Database Systems, Introduction to Data Science, Intro to Software Engineering

PROJECTS

Food Mood [LINK]

- Developed and deployed a full-stack web application on **Microsoft Azure** that lets users track restaurants they've visited and their favorite foods.
- Built a **Node.js + Express backend** with **RESTful APIs** for managing users, reviews, and restaurant data.
- Designed a responsive **React** frontend and integrated **MongoDB** for persistent data storage.
- Incorporated **Microsoft Azure Blob Storage** to handle user-uploaded photos.

Bus Booking Application [LINK]

- Designed and developed a **JavaFX**-based bus booking application simulating a real-world travel reservation system
- Created a **MySQL** database to store trip details and user reservations, optimizing queries for efficient data retrieval
- Integrated **JDBC** to connect **Java** with MySQL, ensuring seamless data flow between the database and user interface

Virtual World Simulation Project [LINK]

- Extended starter code to develop an **object-oriented Java** project with an interactive GUI and dynamic world simulation
- Replaced basic movement with A* pathfinding so entities navigate efficiently through a tile-based environment
- Refactored core logic using the Strategy pattern with functional interfaces and lambdas for modular behaviors
- Created and animated two new entity types with mouse-click interactions that trigger transformations and world updates

Simple HTTP Web Server [LINK]

- Built an HTTP server in **C** that processes GET and HEAD requests, serving static files and executing CGI-like programs with proper error handling.
- Implemented file handling and response creation, including sending file content, headers, and handling invalid or erroneous requests.

OTHER EXPERIENCE

Systems Integrator

June 2024 - Sep 2024

Scaffold Inspection and Testing Co, San Bruno, CA

- Supported system transitions by managing project workflows in Monday.com, optimizing communication, automating processes for 20% time savings, and collaborating with cross-functional teams to improve operations and present updates to leadership.

Grader/Tutor/Assistant

Dec 2021 - Sep 2023

Kumon, Union City, CA

- Delivered one-on-one and small group instruction in math and reading to students ages 3 through high school, while managing grading, clerical tasks, and progress tracking to support student learning.