

Michelle Cheng

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EDUCATION

B.S. Computer Science | January 2022 – December 2023

Oregon State University — Corvallis, OR

SKILLS

Languages: Python, C#, SQL, Javascript, HTML, CSS, Bash

Frameworks and Libraries: Unity, MySQL, Flask, React, Next.js, Python unittest

Tools and Technologies: Linux, Git, CI/CD, Trello, Figma, Vercel

Additional Skills: Manual testing, Unit Testing, Test case development, Root cause analysis, Regression testing, REST API integration, Agile methodologies

PROJECTS

ML Breakout — [GitHub Repo](#)

Description: A video game replicating Atari's Breakout with an added Machine Learning element in which the player can play against a trained AI. Built using Unity.

- **Agile Development:** Planned and executed weekly *sprints*. Performed stand up meetings where team monitored progress, identified roadblocks, and coordinated tasks to ensure the game met project requirements, functional specifications, and deadlines.
- **Quality Assurance and Manual Testing:** Conducted extensive manual testing and actively engaged in *bug tracking and reporting*, using *task management software*, Trello.

Dark Brew Café Database Website — [GitHub Repo](#)

Description: A web application for managing database operations for a coffee company, with a front-end interface.

- **Database Design:** Designed and implemented *database schema* for Dark Brew Café.
- **Web Development:** Utilized Flask to design and implement web application, providing interface for *CRUD operations* on the backend.
- **SQL:** Implemented *SQL queries* and procedures to manage and retrieve data effectively.

PokePy — [GitHub Repo](#)

Description: A Python desktop Pokedex application. The project aims to showcase proficiency in creating basic UI, utilizing external APIs, and microservice integration.

- **API Integration:** Utilized *external API* dynamically fetch and display Pokemon data.
- **Microservice Integration:** Collaborated with teammate to implement *microservice architecture*.
- **Error Handling:** Utilized *error handling* techniques to ensure smooth application operations even in the absence of the microservice.
- **Agile Methodology:** Developed *user stories* and managed project workflow using *agile principles* and *sprints* to maintain project organization and ensure timely completion.