

NYGEL IAN MELCHOR

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ABOUT ME

Passionate Computer Science student at Western Oregon University looking to apply myself to the industry and explore the many domains it has to offer.

Together with others, we finalized projects complete with UML diagrams and test-driven development in C# or Python.

EDUCATION

June 2023 (expected) • Western Oregon University - Monmouth, OR

BS Computer Science

EXPERIENCE

Reddit Clone - Jan 2022

- Analyzed documentation which led to increased code coverage of an existing monolithic application to 99% arranged with Pytest. Coded in a Linux virtual environment managed using terminal commands from Pipenv, Git and Flask. Evaluated code coverage reports to achieve refined and enhance unit tests. Configured a config file to exclude code unrelated to application such as a Python script to load database with Reddit posts and to operate a server on localhost.

Class Registration System - June 2021

- Coordinated a two-person team production from documentation creation to testing. Created use case and class diagrams using Unified Modeling Language (UML). Formulated a comprehensive unit test suite utilizing the NUnit framework. Continuously convened with team member to prioritize and rationalize requirements to balance scope over 3 months as deadlines approached.

Data Structures - November 2020

- Coded numerous structures in a test-driven development approach. Organized submissions with 277 incremental git commits. Inspected and adjusted docstrings to include Python's type hinting which allowed tools to analyze code before runtime and improve workflow.

SKILLS

ASP.NET Core | HTML | CSS | jQuery | Bootstrap | SQL | Git | Python

Programming | C# Programming | JavaScript | GitHub | LINQ | MATLAB

RELEVANT COURSE WORK

Information Management | Information Assurance & Security | Software Design & Testing | Microservices Architecture

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