Forbes Miyasato

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EDUCATION

Pacific University, Forest Grove, OR — Bachelor of Science in Computer Science | Minors in Physics and Chinese
August 2016 - May 2020 | Cum Laude

Portland State University, Portland, OR — Master of Science in Computer Science
Currently studying and maintaining a 4.0 GPA.

SKILLS

Languages (in proficiency order) : C++, JavaScript, Java, HTML, CSS, C, SQL, Python, Go, PHP

Tools: Git, React Native, ReactJS, NodeJS, Flask, Express, UML, Sass, JUnit & Hamcrest, Jest & Enzyme, GatsbyJS, Docker

PROJECTS

*Depending on the project, website access, demos, and source code may be available upon request

Unibooks — *Personal Interest Project (2020) - https://unibooks.io*
Flask, PostgreSQL, Python, Jinja2, JavaScript, jQuery, HTML, CSS, Sass, AWS S3, AWS SES, Heroku, Git
- Free service to help local students connect to sell and buy used textbooks (and other stuff too)
- Aiming to solve the problem that students have a difficult time finding buyers and sellers for used textbooks
- Self-taught: all the languages and tools; using AWS for static file storage & emailing and PostgreSQL for persistent data; implementing a single page application with jQuery and Ajax
- Currently supports Pacific University and Portland State University and looking to cover more schools

README Generator — *Internet, Web, and Cloud Systems (2020) - https://readme-generator-yxqexgpoza-uw.a.run.app/*
React, JavaScript, Python, Flask, Docker, Google Cloud Platform, Firebase, Github API, Google Translate API, Bootstrap
- Designed and implemented a README Generator that can translate content into different languages and upload the README directly to the user's selected GitHub repository.
- Containerized the application with Docker, built the container using Cloud Build, and deployed using Cloud Run.

Simple Parking Observation Tool — *Senior Capstone (2019-2020)*
MongoDB, ExpressJS, ReactJS, React Native, NodeJS, JavaScript, Google APIs, Sass, HTML, CSS, Git, Heroku
- Website and mobile app that displays parking and location data for Pacific University parking lots
- Designed and implemented the entire website/mobile app's UI, RESTful APIs, and database model
- Modern and interactive front-end that displays data from the database and Google APIs
- Self-taught: all the languages and tools; integrating React with NodeJS, MongoDB, and Google APIs; deploying the application

Phone Bill Application — Advanced Programming with Java (2020)
Java, Test-Driven Development, Object-Oriented Design, Git
- Semester-long, multi-part phone bill application project that supports features such as creating and storing phone bills, entering calls, printing a phone bill and its calls, and searching for calls based on a time interval
- Implemented command line, REST, and Android interfaces
- Developed in a test-driven development fashion using testing frameworks such as JUnit, Hamcrest, and Mockito

Boomshine — Java & Android Programming (2020)
Java, MongoDB, ExpressJS, NodeJS, UML, Object-Oriented Design, Git
- Designed and implemented an Android Boomshine game with a partner in four days
- Active and clear communication together with utilizing design patterns such as factory and strategy allowed us to quickly generate new ideas, implement new features, and fix bugs in the four day time crunch
- Highlight Features: Three types of power-ups which could be purchased through coins that you earn during gameplay, user authentication, storing and retrieving user data such as coin amount, power-ups' amount, and high scores

Bank Accounts — *Advanced Object-Oriented Design (2019)*
C++, UML, Object-Oriented Design, Visual Leak Detector, Git
- Designed and implemented a bank simulator following SOLID principles and utilizing design patterns such as command, strategy, singleton and visitor.
- Semester-long, multi-part project which reflected real-world changing requirements that both the design and implementation needed to address throughout the lifetime of the project