

# Forbes Miyasato

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Pursuing a Master of Computer Science at Portland State University (taking courses this summer and fall as a non-admitted student, and applied for winter '21 enrollment). Proficient in both English and Chinese.

## EDUCATION

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

## SKILLS

*Languages:* C++, Java, JavaScript, C, SQL, Python, PHP, Go, HTML, CSS

*Tools:* Git, React Native, ReactJS, NodeJS, Flask, UML, Sass, Visual Studio, Linux, Windows, Azure DevOps, IntelliJ, Android Studio, Eclipse, Valgrind, JUnit & Hamcrest, Jest & Enzyme

## Related Coursework

Data Structures, Theoretical Computer Science, Algorithms Design and Analysis, Advanced Object-Oriented Design, Database Systems, Human-Computer Interactions, Software Engineering, Java & Android programming, Computer Security, Operating Systems, Front-End Web Development (PSU), Advanced Programming with Java (PSU), Internet, Web & Cloud Systems (IP)

## 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; integrating 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

### Simple Parking Observation Tool — Senior Capstone (2019–2020)

MongoDB, ExpressJS, ReactJS, React Native, NodeJS, JavaScript, Google APIs, Sass, HTML, CSS, Git

- 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
- 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, Google APIs; hosting on heroku

### 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