

EDUCATION

Oswego, NY

**State University of New York
(SUNY) College at Oswego**

Fall 2016 – Dec 2020

- B.A in Computer Science, Dec 2020
- Undergraduate Coursework: Programming Languages, Web Services, Data Structures and Algorithms

SELECTED COURSEWORK

Software Engineering (Fall 2017)

GUIGoPiGo

- Designed and implemented a web client for a robot using HTML, CSS, and JavaScript.
- Used Git and GitHub to collaborate on code with a 6-person team.
- Used Linux terminal to manage files hosted on the robot and run Python code.
- Contributed to the Software Requirement Specification document (SRS) that described the goals and purpose of the project.
- Created UML diagrams in order to represent the system under development (class, sequence, and activity diagrams).

Web Services (Spring 2020)

- Designed a RESTful API which allowed a person to create an account, add sneakers to a database, and retrieve the information in JSON format.
- Implemented the API in multiple frameworks over the course of the semester (Java EE, Servlet API, Grails, Spark Java and Dropwizard).
- Utilized Maven to build sources and download dependencies for the project.

Data Structures and Algorithms

(Fall 2020)

- Created an application that scraps Wikipedia webpages for links, compares them via TD-IDF score and returns the most relevant URL.
- Designed a Java Swing GUI that displayed the comparison metrics.

Software Quality (Fall 2019)

- Worked in a 3 person team to created a Quality Management Plan (QMP) that expressed the team's rationale behind the various testing techniques.
- Utilized Specification Based Testing (SBT) techniques to derive equivalence classes.
- Derived 100+ test cases for all non-trivial methods and classes in the program.
- Implemented all test cases in JUnit and reported a 96.88% Test Suite passing rate.

PROJECTS

- **JBento** (2019-Present). Static website created to sell instrumental music. Bootstrap 4, HTML, CSS, JavaScript;
- **Turing Machine** (2019). Turing Machine that accepts a "tape" of numbers. Can read and write digits, as well as print to the command line. C;
- **mailMe** (2019). Program that filters source files in a directory and creates a HTML files comprised of all keywords found. Compresses the files and automatically emails them to a user specified email address. Python, Linux, HTML, CSS;
- **Dictionary GUI** (2016). Graphical User Interface for a dictionary comprised of 20,000 words. Java, Java Swing;

ADDITIONAL EXPERIENCE AND AWARDS

- **Computer Science Association Tutor (2017):** Reinforced object-oriented programming principles and taught useful debugging techniques to students.
- **Digital Music Association President (2018-Present):** Organizes events and workshops focused on music production and showcasing student talent on campus.

LANGUAGES AND TECHNOLOGIES

- Proficient with: Java
- Some Experience with: HTML, CSS, JavaScript, Python, C
- IntelliJ IDEA, Visual Studio Code, Netbeans
- Bootstrap 4, Java EE, MySQL, Java Swing
- macOS, Linux (Ubuntu), Windows XP, 7, 8, 10