Shawn Tan

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EDUCATION

Texas A&M University - GPA: 3.52 — College Station, TX
Bachelor of Science - BS, Computer Science — *Expected Graduation Date: May 2021*

Coursework: Software Engineering, Database Systems, Programming Studio, Data Structures and Algorithms, Design and Analysis of Algorithms, Introduction to Computer Systems, Information Storage and Retrieval, Computer Organization, Discrete Mathematics, Linear Algebra.

EXPERIENCE

Dwight Look College of Engineering

Engineering Computation Lab I - Teaching Assistant — *Aug. 2018 – Dec. 2019*

- Helped teach Python and fundamental programming concepts to a class of over 100 students.
- Worked with professors and other TAs to teach PyCharm basics, computational problem-solving, and software design.
- Provided weekly tutoring sessions for students; graded labs and exams.

PROJECTS

Brotherhood of Engineers Participation Tracker | *Ruby, Ruby on Rails, RSpec, Capybara, PostgreSQL, Heroku*

- Web application that allows student members and officers to track and take attendance for organizational events.
- Utilized PostgreSQL and Ruby on Rails in accordance with MVC design principles to implement RESTful routing and CRUD functionality; Deployed application to the public through Heroku, a cloud application platform.
- Leveraged Rspec and Capybara to specific write unit tests that follow TDD practices.
- Adhered to agile methodologies by working in two-week sprints and participating in daily standups and bi-weekly grooming meetings.

Movie Database Management System | *Java, SQL, JavaFX*

- Java-based database management system and graphical user interface, which manages and queries data from a movie database for students within the College of Liberal Arts.
- Worked in a team of four to handle the parsing of SQL-like data, implement data storage/manipulation through object-oriented programming, and utilize JavaFX to design a user-friendly GUI.

Buddy System Memory Allocator | *C++, Git, GDB*

- Utilized C++ to create a memory manager that models how a Linux kernel would partition, allocate, and free memory for computer processes via the buddy system allocation method.
- Became familiarized with the Linux command line and development tools, such as the g++ compiler command, GDB Debugger, Git, and various navigation/file management commands.

ADDITIONAL

- **Experienced:** Java, C++, Python
- **Familiar:** Kotlin, Ruby, SQL, JavaScript, HTML, CSS, C#, MATLAB
- **Tools:** Android Studio, Git, Bash, PostgreSQL, Ruby on Rails, RSpec, Capybara, Heroku
- **Interests:** A&M Tennis Club, competitive Super Smash Bros., jump rope