

Tom Amaral

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Profile

A 2nd-year Software Engineering student with a passion for design, a love for working in teams, and a strong desire to learn. Seeking a cooperative education in the Software field. Available June - December 2018.

Experience in:

- Agile Methodologies
- Design Patterns
- Unit Testing
- Software Modeling
- Design Documentation
- Refactoring Software

Education

B.S. Software Engineering, Rochester Institute of Technology, 3.0/4.0, May 2021

Relevant Experience

Airline Flight Reservation System

Class project where the customer needed a way to view flights, make, view, and delete reservations, and view relevant airport data. Additional requirements were given partway to include airport information from a web service, a graphical user interface, and the ability to undo reservation operations.

- Worked with 3 team members to design and implement this project over 3 months/2 releases
- Final product implemented 6 design patterns, 4 subsystems, and a 25-page design document

Tools: Java, JavaFX, UML, Lucidchart, Slack, Github, Design patterns, Json, MVC, Sequence Diagrams

Bad-libs

Personal project where the customer wanted to play a web-based random ad-lib game

- Created web-based ad-libs game that provides a random ad-lib form on every new page load
- Implemented mobile-friendly design using Bootstrap framework
- Future planned features: user authentication system, results emailing, social media integration

Tools: HTML, CSS, Javascript, jQuery, Json, Bootstrap, Github

Webcheckers

Class project where the customer would like the ability to play checkers remotely

- Worked with 3 team members and product owner over the course of 4 Sprints of 2 weeks
- Design included flat-file-based user statistics and a login system and allowed users to play against other logged-in players
- The resulting code base had 40 test cases (JUnit)

Tools: Java, Java Spark, JUnit, UML, GRASP, SOLID, Slack, Trello, Agile, MVC, Sequence Diagrams

Professional Experience

Eagle Scout Project - Designed a new information kiosk for use in 9 nature reserves around the Town of Dartmouth for the Dartmouth Natural Resources Trust. Organized 6 other Boy Scouts to build the design and save the DNRT hundreds of dollars in product and labor costs in comparison to other commercial sources.

Referee / Line Cook - Lasertron, Rochester, NY

Camp Counselor / Line Cook - Town of Dartmouth, Dartmouth, MA