Wesley Wei

617-275-9957 \diamond Wesley@WeiWesley.com \diamond U.S. Citizen

TECHNICAL STRENGTHS

Programming Languages C, C++, Python, Bash/Shell, MATLAB,

HTML/CSS/Javascript, jQuery

Technologies & Tools GNU/Linux, Vim, Git, PyQt

EDUCATION

Tufts University, Medford, MA, Class of 2018

Bachelor of Science, Computer Science Bachelor of Science, Mathematics

EXPERIENCE

Tufts University, Medford, MA

September 2015 - May 2018

Teaching Assistant - Department of Computer Science

- · Answered students' questions regarding assignments and topics covered in class.
- \cdot Graded design documents for class assignments.

NSRRC, Hsinchu, Taiwan

June 2016 - August 2016

Temporary Assistant

- · Refactored a Python/PyQt based frontend for a Linux based image processing backend with the goal of easing future development and the addition of new features.
- · Added the capability to operate on subsets of data, letting the application to load a fraction of thousands of images and operate much faster.

NTHU, Hsinchu, Taiwan

June 2015 - November 2015

Temporary Assistant

· Wrote a MATLAB script automating data analysis, replacing manual calculations involving ORI-GIN and Microsoft Excel, cutting processing time from 20 minutes to a few seconds per data set.

PROJECTS

REPL June 2018 - Present

Hosted on Github

- · REPL is a python framework for embedding a shell into an application, providing a simple way to bind python code to textual commands.
- · REPL mimics some of the conveniences of a POSIX shell; it provides pipes, functions, flow control, aliases, and more.

Composte Fall 2017

Hosted on GitHub

- · Composte is written in Python and is a Linux based client-server application that facilitates real-time, collaborative editing of sheet music.
- · Implemented network foundation using ZeroMQ, serverside storage using SQLite, REPL for user interaction and scripting, and encryption stubs.
- · Composte includes a PyQt GUI developed by a team member, and a music backend based on the music21 package, developed by another team member.

Questionable Battleship

Summer 2017 - Present

Hosted on GitLab

- · Multiplayer Battleship over websockets. Available at questionablebattleship.com/simple.
- · Developed simple web-based UI using Javascript and iQuery.
- · Developed backend server in C++, relying on the following libraries: crossguid, doctest, json, spdlog, tclap, websocketpp, cppzmq, libicu. The server uses worker processes to manage its state and ZeroMQ for IPC.