

Wesley Wei

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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

Bachelor of Science, Computer Science, 2018

Bachelor of Science, Mathematics, 2018

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.
- 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 ORIGIN 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 jQuery.
- 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.