Wesley Wei

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TECHNICAL STRENGTHS

Programming Languages	C, C++, Python, Bash/Shell, MATLAB, HTML/CSS/Javascript, jQuery, Java
Technologies & Tools	GNU/Linux, Vim, Git, PyQt

EDUCATION

Tufts University, Medford, MA
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.
· 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.

Composte Fall 2017
Hosted on GitHub

· Composte 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/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.