Wesley Wei

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TECHNICAL STRENGTHS

Programming Languages Technologies & Tools C, C++, Python, Bash/Shell, C#, HTML/CSS/Javascript GNU/Linux, Vim, Git

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.
- · Graded student design documents and provided feedback on document structure, as well as commenting on program design when necessary.

PROJECTS

Time Series Visualization Utility

August 2018 - September 2018

- · Used C# and DevExpress to create a program to graph time series data and export charts as images with precisely controlled dimensions.
- · Designed a data format based on CSV to carry both data and display metadata, including color, line weight, and line style.

PDF Report Generator

October 2018

· Automated report generation with Python, pypyodbc, and PyFPDF. Reports include numerous charts produced using Matplotlib.

Dask Cluster Setup

October 2018

· Automated setup of Linux virtual machines intended for parallel computing using Dask using shell scripts and cloud-init.

REPL

June 2018 - September 2018

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, providing pipes, functions, flow control, aliases, and more, allowing developers and end users to quickly create larger programs by composing existing commands.
- · REPL supports configuration through startup dotfiles.

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, an ad hoc shell for user interaction and scripting, and encryption stubs.
- · Composte includes a PyQt GUI developed by one team member and a music backend developed by another team member, based on the music21 package.

Questionable Battleship

Summer 2017

Hosted on GitLab

- · 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.