TIMOTHY PORTFOLIO

CONTACT

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LANGUAGES

Proficient:

Python   Java

Intermediate:

JavaScript (React)

Familiar:

C/C++   Bash

PLATFORMS

Docker

Kubernetes

SOFTWARE

Protocol Buffers

Redis

TOOLS

Atlassian Suite

Git

Gradle

IDES

Pycharm

IntelliJ

Visual Studio Code

WebStorm

EDUCATION

University of California, Los Angeles   Sept. 2016 - June 2017
Master of Science in Computer Science   GPA: 3.93

University of California, Los Angeles   Sept. 2013 - June 2016
Bachelor of Science in Computer Science   GPA: 3.57

WORK EXPERIENCE

The Boeing Company   Nov. 2017 - present
Active security clearance

Software Engineer III (Oct. 2020 – present)
- Current software lead for the simulators portfolio of the P-8A acoustics program
- Expanded functionality of operator GUI and corresponding backend for the Wave Glider, an unmanned surface vehicle built for data gathering at sea
- Led development of Python data translation tool for international client that earned an additional procurement contract

Software Engineer II (Nov. 2018 – Oct. 2020)
- Headed frontend migration effort for the P-8A acoustics program by leveraging React.js and Electron to increase responsiveness of data displays
- Optimized rendering time by more than 50% via significant throughput reduction and in-house module development
- Collaborated consistently with integration and test engineers from Navy clientele to ensure project milestones were achieved and delivered early

Software Engineer I (Nov. 2017 – Nov. 2018)
- Improved stability and performance of core Java displays for the P-8A acoustics subsystem
- Arranged and co-taught four-part Python seminar on behalf of several dozen members of the acoustics project

University of California, Los Angeles   June 2016 - June 2017
Teaching Assistant - Engineering 183EW
- Taught analytical writing and public speaking skills to over 100 upperclassmen
- Graded research essays and held one-on-one conferences with students

PERSONAL PROJECTS

Go Figure – JavaScript (React + Electron)
- Developed a desktop client for digital and traditional artists that offers customizable figure drawing practice as well as a dynamic reference canvas
- Supports tracking and display of historical session data, hot keys for image manipulation, and persistent application settings

Lockstep – Python 3
- Implemented a file synchronization program for backing up folders/drives
- Provides dry-run display of file tree delta between source and destination folders
- Allows user to save sync configurations to disk in order to re-use for future cycles