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Education

Portland State University

Portland, OR

B.S. IN COMPUTER SCIENCE WITH A MINOR IN PHYSICS

2014 - 2020

GPA: 3.01

Technical Profile

Programming Python, C/C++, Java, JavaScript, TypeScript, Bash, SQL, PostgreSQL, MIPS/x86, LaTeX

Machine Learning Scikit-learn, Keras, Numpy, Pandas, NLTK, Matplotlib, Seaborn

Web Development HTML, CSS, ¡Query, Bootstrap, Node, Express, Flask, React, Ionic Framework, Google Cloud Platform

Platforms and Tools Linux, Windows, Vim, VSCode, PDB, GDB, Git, Android Studio, Agile, Scrum, Jira

Experience_

Open Source Mobile City App (https://github.com/jldle/North-Plains-App)

Portland, OR

WEB DEVELOPER June 2020 - July 2020

Open source Android and iOS app to mirror a client city's website.

- Designed pages using Ionic React Framework and Typescript.
- Built rudimentary API calls to fetch JSON and populate pages.

Dual-Pi DJ Visual Assistant (Pi-Visualizer), PSU (gitlab.com/madelyea/team-visualizer)

Portland, OR

SOFTWARE ENGINEER

Sept 2019 - Mar 2020

Pi-Vis is part of an art installation to be featured at Burning Man. Written in Python, the multi-threaded program makes extensive use of Socket programming and command line scripting to sync video playback between two Raspberry Pis.

- Wrote communication protocols to be fast and consistent.
- Designed architecture to withstand harsh environments, minimize probability for failure, and provide users with easy interface and deployment.
- Developed redundancy—Pis can be swapped on the fly without disruption to playback.
- Developed reliability—Errors handled by the system during the approx. 12hr run time.

Lonr (https://github.com/carsayao/lonr)

Portland, OR

WEB DEVELOPMENT/MACHINE LEARNING

Jun 2019 - Aug 2019

Web-chat app generates Markov models from corpora to simulate conversation with notable comedians.

- Built frontend using Flask, HTML, CSS, Bootstrap for clean, simple look.
- Built backend using Flask-SocketIO to establish low latency two-way communication between client and server.
- · Modified Python library, Markovify, to generate a more robust response message.

Web Development, PSU Portland OR

STUDENT GRADER Sept 2019 - Mar 2020

- · Courses covered HTML5, CSS, HTTP, JavaScript (ES6), Node, Express, React, and other various libraries, frameworks, and APIs.
- · Work was focused on evaluating student assignments and projects.
- Delivered constructive feedback and tips to students struggling with assignments.
- Managed student concerns and inquiries concerning technical and academic issues.

DSHS of Washington Vancouver, WA

HOME CARE AID Jun 2016 - Present

Free Geek Portland, OR

VOLUNTEER Sept 2011 - Present

City of Vancouver Vancouver, WA

Jun 2011 - Sep 2015 LIFEGUARD & CAMP COUNSELOR