Carlos Miguel **Sayao**

COMPUTER SCIENCE · SOFTWARE ENGINEER

(+1) 360-718-1116 | carlossayao@gmail.com | carsayao.github.io | carsayao | carsayao | carsayao

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, MIPS/x86, LaTeX
Machine Learning	Scikit-learn, Keras, Numpy, Pandas, NLTK, Matplotlib, Seaborn
Web Development	HTML, CSS, jQuery, 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/jIdle/North-Plains-App)   *Portland, OR*

WEB DEVELOPER   *June 2020 - Present*

Open source Android and iOS app to mirror a client city's website.
- Designed pages using Ionic React Framework.
- 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.

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.

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.

DSHS of Washington   *Vancouver, WA*

HOME CARE AID   *Jun 2016 - Present*

Free Geek   *Portland, OR*

VOLUNTEER   *Sept 2011 - Present*

City of Vancouver   *Vancouver, WA*

LIFEGUARD & CAMP COUNSELOR   *Jun 2011 - Sep 2015*