

Maxwell Oakes

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Education

Master of Science, Computer Science

Mar 2021 – Mar 2023

Portland State University

- 4.0/4.0 GPA; Phi Kappa Phi Honor Society
- Relevant Coursework: Database Management Systems, Fullstack Web Development, Unit Testing, Software Testing and Implementation, Internetworking Protocols, Computational Imaging
- Relevant Technical Skills: Python, HTML/CSS, JavaScript, React, SQL (PostgreSQL), C#, Github, Unit Testing

Bachelor of Science, Computer Science

Aug 2013 – May 2017

University of Portland

- 3.28/4.0 Overall GPA; 3.41/4.0 Major GPA
- Relevant Coursework: Analysis of Algorithms, Programming Languages, Data Structures, Object-Oriented Design, Remote Sensing & GIS
- Relevant Technical Skills: Java, C#, C/C++, SQL (MySQL), ArcGIS

Experience

Programmer Analyst 1

Jun 2023 – Current

Marion County | Salem, OR

- Rewrote several business and mission critical legacy applications using C# and ASP.NET that were previously created using Microsoft Access.
- Created several dozen deployment scripts for applications used by numerous workstations across the county, and improved existing documentation workflow for the deployment process.
- Transcribed dozens of reports from Microsoft Access into SQL Server Reporting Services (SSRS), and maintained and improved a dozen other existing SSRS reports.

Administrative Coordinator

Sept 2018 – Dec 2020

Orbis Education | Portland, OR

- Wrote a variety of programs in Python to automate previously tedious tasks, frequently saving several hours of work per week.
- Developed academic calendar used by over 400 concurrent students across multiple locations.
- Created workflow of all tasks performed by administrative team, allowing for timely task allocation in a growing nursing program.
- Collaborated with 2 other education coordinators to ensure 120 incoming students per semester were in compliance with mandatory hospital clinical site safety and vaccination standards.

Projects

James Webb Space Telescope Spectrum Analyzer, Solo Creator

Winter 2023

- Created a Python program to download and combine James Webb Telescope infrared imaging data
- Utilized Python's scikit, NumPy and Astropy libraries to manipulate and combine image layers

Asteroid Visualizer, Solo Creator

Winter 2023

- Created frontend and backend for a website that displays orbits of asteroids using 3D rendering in the web browser
- Utilized THREE.js and React for the frontend, and Typescript, PostgreSQL and C# on the backend, and containerized using Docker