CHARLES SALUSKI

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I am a graduate of computer science with experience in software engineering, machine learning, and network and system administration. I've used these skills in my studies and projects, and am looking for opportunities to continue using and developing these skills.

Skills

LEADERSHIP

Team management, Client communication

Customer Requirements

Project organization and planning

MACHINE LEARNING

Supervised, Unsupervised, Neural Networks, Regression Analysis, Decision Trees

Scipy, SciKitLearn, Pandas, Tensorflow, PyTorch, MLR3

WEB DEVELOPMENT

HTML, CSS, Javascript

Svelte, Bootstrap, React

Next.JS, Sveltekit

CLOUD INFRASTRUCTURE

AWS, Azure, GCP

DynamoDB, Amazon RDS, Amazon Aurora

EC2, Elastic Beanstalk, Serverless computing

Virtual machines, Docker, Kubernetes

IoT, Edge computing, Alexa

PROGRAMMING TECHNOLOGIES

C#, Java, Python, R, C

ASP.NET, Vert.x, FastAPI, Django

SQL, PostgreSQL, MySQL, SQLite, MongoDB

Jupyter, QGIS

NETWORKING AND SYSTEM ADMINISTRATION

Linux, Windows Server, Cisco IOS

Active Directory, Group Policy, Powershell, Bash

Routing and Switching, VLANs, VPNs, DHCP, DNS

Docker, Kubernetes, Systemd

Virtual Machines, VMWare, HyperV, VirtualBox, KVM

Education

Northern Arizona University Aug. 2020 to Dec. 2022
BS Computer Science 2022

Yavapai College May 2020
AS Science 2020

Yavapai College 2018
AAS Computer Networking Technology 2018
Included training in Cisco IOS, Windows Server, and A+ and Security+.

Employment

Northern Arizona University, Staff PIXEL Lab, Flagstaff, Arizona
Research Computing Systems Administrator Oct. 2023 to Current
Performed ongoing maintenance and improvements to infrastructure, both physically and digitally, to ensure collaborator efficacy and operational resiliency.
Migrated data processing services from a static install to a portable containerized solution.
Created data processing scripts to allow collaborators to more effectively process their data into usable products.

Northern Arizona University Flagstaff, Arizona
Undergraduate Research Assistant, Dr. Michael Gowanlock Aug. 2022 to Dec. 2022
- Analyzed asteroid orbits utilizing changepoint detection algorithms and parallel programming techniques.
- Created visualizations to aid in the presentation of results.
- Communicated findings to collaborators and worked together to identify next steps.
- Worked to develop a framework that could be utilized to process continuous new data on asteroids.

Undergraduate Research Assistant, Dr. Toby Hocking Jan. 2022 to Aug. 2022
- Interfaced with research team to identify areas for analysis and to derive goals for analysis.
- Utilized data science and machine learning techniques to create models which implemented analytical goals.
- Utilized a variety of technologies and tools, including:
- - R for data analysis and manipulation, including the MLR3 and Ggplot packages.
- - Generated interactive visualizations using Animint 2.
- - Supervised machine learning techniques, including decision trees and regression, to build and evaluate predictive models.
- Presented analysis findings to research collaborators using interpretable figures and methods.

Peer Tutor Aug. 2021 to May 2023
- Worked with 15+ peers per week to increase their understanding in a variety of subjects.
- Tutored subjects including computer science, calculus, linear algebra, and differential equations.
- Managed time and multitasking focus by working in group tutoring sessions, allocating adequate time to each student and incorporating their individual learning styles.

Undergraduate Research Assistant, Dr. Morgan Vigil-Hayes Jan. 2021 to July 2021
Employed GIS data science techniques to analyze coverage of mobile internet providers in the Hopi Nation.
Developed data gathering methodologies and applied them in the field.
Utilized Python, Pandas, Geopandas, Jupyter, and Matplotlib.

Projects

CS Senior Project - MealWrite Jan. 2022 to Sept. 2022
- Lead team of three in creating an Amazon Alexa skill designed to help home cooks be more effective.
- Worked with clients to identify and prioritize project requirements into a formal specification.
- Managed assignment of individual project components to team members.
- Derived program's overall architecture and data structures.
- Implemented data and user management API server utilizing Python and DynamoDB.
- Created algorithms for data structure management and traversal in accordance with client specification.
- Managed project's AWS resources, including AIM, DynamoDB, EC2, ElasticBeanstalk, and Lambda functions.