Cedric Nagata

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University of Washington Seattle, WA

BS in Computer Science, GPA: 3.71/4.0 June 2024

Relevant Coursework: Data Structures and Algorithms, Data Management & Querying, Operating Systems, Distributed Systems, Artificial Intelligence, Networks, Computer Security, Computer Vision

Experience

Tyler Technologies

Product Analyst Intern **June – September 2023**

- Engineered a secure, UUID-based, document-sharing feature with Django, Python, and Form.io, enabling clients outside the Tyler Tech Org to securely exchange form submissions
- Created an urgent splash messages feature using Django & Python for a Tyler Public Safety client
- Championed Agile development processes utilizing JIRA and Confluence, comprehensive code reviews, daily stand-ups, and retrospectives through the full software development lifecycle

Tyler Technologies

Product Analyst Intern **June – September 2022**

- Created a data pipeline with Python and AJAX for querying an Elasticsearch database, streamlining the data retrieval process significantly
- Used Docker to set up a local development environment with connected images for Django, Form.io, Elasticsearch, and PostgreSQL, cutting setup times significantly

Skills & Projects

Skills: Python, JavaScript, Java, C#, HTML/CSS, SQL, C++, Django, React, Docker, Git, PostgreSQL, Elasticsearch, AWS

DERM DX (Python, Flutter, Dart.io)

- Created a Flutter mobile application for iOS and Android that allows users to diagnose skin lesions and classify them as benign or malignant from a phone camera image
- Trained two convolutional neural networks with ResNet50 base structures for diagnosis and benign/malignant predictions
- Collected and processed 44,033 images of skin lesions from the ISIC public archive for training

UW Campus Map Pathfinder (Java, React, HTML)

- Created a custom graph structure using Java to support nodes, direction, and path weight
- Gathered UW campus data and created a campus map accurate to the square foot
- Used Dijkstra's algorithm to parse paths and provide a fastest route between two locations
- Used React, HTML, and SparkServer to host the map and path finder on a local web application

Flight Service App (Java, SQL, Azure)

- Designed and coded a Flight Service App supporting functions for creating users, secure logins, searching for flights, creating itineraries, booking flights, and storing reservations
- Created a Java backend and used SQL to query against a flight database in Microsoft Azure
- Implemented concurrency to rollback conflicting commits and ensure no double bookings

Leadership

UW Society for Advanced Rocket Propulsion (SARP) – ACS Project Lead **2021 – 2023**

- Led a research team in developing advanced control systems for a 12-in. rocket
- Processed flight data to create prototypes for a Reaction Control System that would enhance rocket stabilization outside Earth's atmosphere