

EDUCATION

York University Sep. 2018 - Sep. 2022
B.S. Computer Science 2022
First Class Honours

SUMMARY

Highly skilled software developer proficient in designing, developing, and deploying high-performance applications using cutting-edge technologies such as Generative AI, Google Cloud Platform, and Python. Experienced in data manipulation, machine learning (regression, classification, clustering), and advanced software development methodologies. A proven ability to deliver solutions that significantly improve operational efficiency and data insights.

SKILLS

GOOGLE CLOUD PLATFORM: Gemini, Vertex AI, BigQuery, Cloud Storage, Cloud Functions, Compute Engine

MACHINE LEARNING: Generative AI, Prompt Engineering, NumPy, Pandas, scikit-learn

PROGRAMMING: Python, Java, C, JavaScript, TypeScript

VERSION CONTROL: Git, GitHub, Bash

WEB DEVELOPMENT: HTML/CSS, Node.js, REST APIs

EMPLOYMENT

DEFINITY

Software Developer

Toronto, Canada
Nov. 2023 - Current

- Designed, developed, tested, and deployed a Python web scraping application (using requests and BeautifulSoup libraries) to validate VINs against 8 OEM databases. Implemented comprehensive unit tests using pytest to ensure accuracy and reliability. This application identified over 100 fraudulent VINs, generating \$2M in realized fraud savings
- Engineered a Generative AI application using the Google Gemini API to extract actionable fraud intelligence from unstructured data. The application processed 20 documents per week, leveraging pandas and NumPy for data cleaning and transformation. Integrated with BigQuery for data warehousing. Implemented robust error handling and logging mechanisms, achieving a 37% reduction in processing time and a 21% improvement in data quality
- Designed and implemented a cutting-edge network graph tool on Tableau, streamlining claims triage, improving nexus connection identification, and optimizing data utilization, reducing average triage time by 43%
- Conducted a comprehensive analysis of existing fraud intelligence databases across Microsoft SharePoint and Jira, identifying critical data gaps and inefficiencies that significantly hampered fraud investigation efforts. This analysis informed the design of a centralized, cloud-based fraud intelligence platform (GCP) leveraging a graph database to increase fraud savings by \$1.5M incrementally per year.
- Developed a Python application to automate payee data summarization, resulting in a 79% reduction in processing time and enabling significantly faster anomaly detection

INFOSYS

Software Developer

Toronto, Canada
Nov. 2022 - Sep. 2023

- Designed, wrote, tested, and debugged software code for a client's banking application using Java, Selenium WebDriver, TestNG, and JaCoCo, increasing test coverage by 20% and reducing post-release defects by 15%
- Implemented and maintained automated testing frameworks (Selenium WebDriver, TestNG, Jenkins) to streamline the Continuous Integration/Continuous Delivery (CI/CD) pipeline
- Applied agile methodologies (TDD, BDD) to ensure high-quality deliverables across multiple platforms, contributing to a 5-minute reduction in daily stand-up meetings through efficient communication
- Authored comprehensive documentation for software components, detailing testing processes and ensuring clarity for future development and maintenance
- Resolved production support issues, providing timely workarounds and communicating solutions effectively to stakeholders. Utilized SQL for database interaction and Git for version control

PROJECTS

MEAL APP SCRIPT

Sep. 2023

- Wrote Bash script and used Windows Subsystem for Linux (WSL), and Node.js to automatically update and maintain a meal scheduling app used daily by over 30 students in a university residence
- Reduced average app downtime from 2mins/week to < 5s/week

VIN DECODER

Sep. 2024

- Developed a Bash script that prompts users to input Vehicle Identification Numbers and passes them to a Python script for decoding
- Created a seamless batch-script-to-Python workflow, automating VIN decoding and minimizing manual data entry.
- Designed the script with a user-friendly interface to provide clear prompts and feedback, ensuring ease of use and improving the overall user experience