WILLA KONG

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CORE COMPETENCIES

- * Languages and Frameworks: Python, JavaScript, Angular, React, Redux, Java, C/C++, C#, .NET, SQL, Flask, Selenium
- * Tools and Technologies: AWS, Docker, Git, Bash, Elasticsearch, Ansible, Jenkins
- * Concepts: Web Development, Machine Learning, Cloud Computing, REST APIs, Relational Databases, OOP

WORK EXPERIENCES

SS&C - Full-Stack Developer

Sep 2020 - Dec 2020

- * Optimized search functions and queries in PostgreSQL by adding indexes and creating stored procedures, resulting in a 20% speedup
- * Integrated the Vault infrastructure into a Java Spring Application to protect secrets used for configuration
- * Implemented a user theming feature in an Angular application by modularizing the components for styling

IBM - IoT & AI Developer

Ian 2020 – Apr 2020

- * Designed a REST API using Python and Flask that dynamically adds, trains, and recognizes users for facial recognition
- * Reduced training time for a new user from 1 hour to 5 minutes by creating an intermediate feature cache in HDF5
- * Implemented REST API on Paperspace in a GPU-accelerated Nvidia Docker container, halving training time
- * Developed a web-based image annotator using React, Redux and Leaflet.js to simplify object classification for business users and allow cross-platform collaboration on the same dataset of images

Genesys - Full-Stack Developer Intern

May 2019 - Aug 2019

- * Created an AWS RDS microservice with serverless lambda functions and CloudFormation to simplify the architecture
- * Composed several Ansible scripts, Jenkinsfiles, and Dockerfiles to automate deployment, reducing manual workload

Nielsen - Software Developer

Sep 2018 - Dec 2018

- * Developed a utility in C# that cleans data using metadata in Oracle, improving efficiency from a day to 10 minutes
- * Used C# and Selenium to scrape flyers from major retailers to reduce manual workload from half a day to 5 minutes
- * Filtered and cleaned large datasets stored in SQL Server and Oracle, returning a compact CSV within 5 minutes

Morneau Shepell – System Developer

Jan 2018 – Apr 2018

- * Created an integration application that syncs defect data from HP ALM to Microsoft VSTS using C#, .NET Core 2.0, REST APIs and a 3-way merging algorithm to allow for smoother agile scrum meetings
- * Designed UI POCs using Bootstrap, Angular 5, and ASP.NET Core that successfully illustrated a new syncing interface

PROJECTS & ACTIVITIES

Undergraduate Research Assistantship (URA)

Jan 2021 – Apr 2021

* Integrated a Language Server Protocol (LSP) that dynamically checks for Java errors into a custom IDE using Theia

Handwriting Autocorrect

Feb 2020

* Developed a Python application that parses handwriting with optical character recognition (OCR) and checks for spelling using natural language processing (NLP) and a messaging queue between the Raspberry Pi and server

Chat Server Oct 2018

- * Created a chatroom application in Python where users can broadcast messages over the same network
- * Gained insight on key networking concepts such as TCP/IP, protocols, sockets, client-server model, and addressing

EDUCATION

University of Waterloo

2017 - 2022 (expected)

Candidate for Bachelors of Applied Science (Computer Engineering)