WILLA KONG

willakong8@gmail.com
willakong.github.io ∗ github.com/willakong

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
* Developed front-end components in Angular and refactored the codebase to allow for user theming
* Integrated the Vault infrastructure into a Java Spring Application to protect secrets used for configuration

IBM – *IoT & AI Developer* · Jan 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
* Configured and queried Elasticsearch in ECS and EC2 instances in accordance to FedRAMP standards for US approval

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

Handwriting Autocorrect · Feb 2020

* Developed a Python application that parses handwriting using optical character recognition (OCR) and suggests appropriate spellings using natural language processing (NLP)
* Implemented the messaging queue using Solace between the Raspberry Pi and the 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)