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in davidchi8

O DavidCChi

Skills

Languages: Java, C++, C, JavaScript, Python, SQL, HTML/CSS

Technologies: NodeJS, React, Redux, Flask, MongoDB, Microsoft Detours, Elasticsearch

Tools: Git, Bash, Docker, Jekyll, Firebase

Experience

McAfee Sept 2019 to Dec 2019

Software Developer

- Optimized the state management system of antivirus software, improving UI response time to real-time data by 30%
- Implemented an API to store and fetch historical data using C++ and JavaScript, leading to 60% faster load times
- Added support for localization of the new antivirus software to enhance usability for users of different cultures
- Utilized Microsoft Detours in C++ to simulate failure scenarios for unit tests, increasing code coverage by 10%

Ontario Institute for Cancer Research

Jan 2019 to May 2019

Applications Developer

- Implemented NodeJS modules to handle user authentication and actions from the Content Management System
- Developed scripts to automate continuous integration processes, leading to 30% faster project deployment
- Built a centralized logging system using ELK, resulting in 100% faster resolution of errors on deployed projects
- Developed interactive React components to enhance the showcase of cancer research for 10+ OICR Labs

Facility Association May 2018 to Aug 2018

Database Developer

- Implemented a relational database to store incidents reported under the ERM framework
- Developed a reporting form using the ActiveX framework to insert and update incident records using SQL
- Redesigned the process of reporting and reviewing incidents for risk analysis and management

Projects

Super Pac-Man (Java) Mar 2019

- Developed a variation of the Pac-Man game that incorporates different special abilities to enhance the player
- Incorporated **Object Oriented Programming** practices and the **visitor design pattern** to handle collisions and interactions between entities and the environment
- Utilized the Java Swing library to provide a graphical user interface

TravelSafe (JavaScript, Actions on Google)

Sept 2018

Expected Graduation: 2022

- Developed a Google Assistant app using Actions on Google to provide users with a discrete way to report crimes
- Utilized the Dialogflow API and **NodeJS** to understand user commands and provide appropriate responses
- Added feature to make calls to emergency services through the Twilio API using the MP3 file generated by the Google Cloud Text-to-Speech API

Education

University of Waterloo - Candidate for BCS
Courses: OOP, Data Structures and Algorithms, Compilers, Operating Systems