Miranda Ransom . Jarvis Consulting

I joined Jarvis right after graduating with my BCS[H] - Computer Science from the University of Windsor. I've aimed to join my theoretical background with practical application through my extracurriculars such as hackathons and joining the Google Developers Student Club as a core member. I've also had the opportunity to work with a local-non profit as part of their tech team developing a MERN stack application with the main goal of data collection and analysis. Looking forward I'm excited to solve problems through software, build things, and continue learning in such a vast field.

Skills

Proficient: Java, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git

Competent: Data structures and algorithms, Javascript, React, MongoDB (NoSQL), C

Familiar: CSS, Kotlin / Android development, C#, Python, Networking

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_MirandaRansom

Cluster Monitor [GitHub]: This project is used to log Linux data and tracks potential outages. The script running on the network switch collects hardware and usage data from the nodes and logs them into a Postgresql database. The nodes send hardware data on startup and then usage data every minute by the use of a crontab. An outage is detected when a node has not sent at least 3 data points in the past 5 minutes found via an SQL select query.

Core Java Apps [GitHub]:

- Twitter App:
- JDBC App: Programmed CustomerDAO which extends DataAccessObject to gain experience in JDBC and the DAO design pattern. Methods implemented include findById, update, create and delete. Transactions were also explored in the update method by turning off auto-commit.
- Grep App: Implemented the grep app in Java. To develop core Java knowledge java.util.regex was used alongside java.io and the slf4j logger to recursively search a specified root directory for a regex pattern and write all matched lines to a file

Springboot App [GitHub]: Not Started

Python Data Analytics [GitHub]: Not Started

Hadoop [GitHub]: Not Started

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

Highlighted Projects

Ensemble: a web app for matching bands and musicians [GitHub]: Utilizing basic web technologies such as HTML, CSS, Javascript and PHP, Ensamble is a web app for bands to post ads looking for other musicians to collaborate with and musicians to find gigs and collaborators.

The Hype Machine [GitHub]: The Hype Machine is a fun and silly hackathon project exploring the SonicPi language in which you can code music. A python script determines if an electric longboard is moving and when it is, plays the SonicPi coded music file.

Professional Experiences

Software Developer, Jarvis (2021-present): Complete SCRUM tickets under the agile methodology to build out multiple projects. Projects include a cluster monitor focusing on strengthening Linux and RDBMS skills.

Tech Team Member, Windsor Essex Community Compassion Care (2020-2021): Build out an all-encompassing MERN stack web application to aid in business needs. My focus was on the front end working with React, Material UI, Survey.js and Chart.js to design components (pages) to aid in user profiles, data collection, and analysis.

Teaching Assistant, University of Windsor (2020-2021): Held weekly office hours to aid students in understanding material and debugging code. Duties also included marking assignments while providing meaningful feedback and virtual in-class assistance

Education

University of Windsor (2017-2021), Bachelor Computer Science [Honours], Computer Science - GPA: 84%

Miscellaneous

- LinkedIn PowerBI Essential Training (2020)
- Guitarist
- Fiction and Non-fiction reader