Kishor Sivapalan . Jarvis Consulting

I completed my Bachelor's of Engineering degree in Computer Engineering at York University. Prior to university, I naturally gravitated towards logic and mathematical concepts. Eventually, I was introduced to programming which made me decide that I wanted to be able to solve real world problems using software. This led me down the path to Jarvis. At Jarvis, I learned about agile development practices while I worked with team members to develop software deliverables. I worked on several software development projects such as a Linux/SQL resource monitor, and a Java clone of the "grep" command in Linux using technologies like Docker, Maven, and PostgreSQL databases. In doing these projects, I hope to further my career in either full-stack development or quality assurance testing, with an added interest in project management.

Skills

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

Competent: HTML, CSS, JavaScript, Docker, Maven

Familiar: MATLAB, C, Python, Node.js, React

Jarvis Projects

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

Cluster Monitor [GitHub]: Developed and deployed a monitoring agent that periodically records hardware information and resource usage data from a node in a cluster. The design consists of bash scripts that initialize a PostgreSQL database instance generated by Docker, and scripts that record the needed hardware information. Scripts are run on a per-minute basis using crontab automation.

Core Java Apps [GitHub]:

- JDBC App: Developed and Java app that uses the JDBC API and a DAO design pattern to be able to perform CRUD operations on a PostgreSQL database running on a Docker container. Maven was used for dependency management of the app. PSQL client was used to directly access the database and verify integrity of performed operations.
- Grep App: Developed and deployed a Java app that mimics the functionality of the 'grep' command in Linux. The algorithm consists of a recursive search from a root path to locate the input file; lines that match the user-specified Java regex will be stored into an output file. Maven was used for dependency management of the app. Docker was used to deploy the app to DockerHub.

Highlighted Projects

Arm & Leg Robotics for Neuro-Rehabilitation: Created a design for Arm and Leg Robotics to support Neuro-Rehabilitation. Detailed a Final Documentation which described the product, its purpose, its functions, and the project management aspects of the project. Project was conducted using agile methodologies in a team of 7.

SmartShoppers System: Developed a shopping system application using NetBeans IDE; a MySQL server was used for backend development. Detailed a Software Specification document which described the software, its purpose, and its functions. Project was conducted using agile methodlogies in a team of 5.

Professional Experiences

Software Developer, Jarvis (2022-Present): Designed, tested, and deployed various software projects using Agile and GitFlow methodologies. Other technologies used include: Docker, Maven, Linux/Bash scripting, PostgreSQL, and the IntelliJ IDE. Led and contributed to daily scrum meetings during each sprint cycle. Performed Master Code Review sessions with a senior developer to verify code quality and background knowledge.

Education

York University (2015-2020), Honours Bachelor of Engineering, Electrical and Computer Engineering - GPA: 3.5/4.0

Miscellaneous

- Sports/Athletics/Fitness
- Competitive/Casual Gaming
- Game Development
- Poker/Chess/Board Games
- Film/TV