Max Huang . Jarvis Consulting

I am a recent graduate of the University of Toronto Mississauga with a bachelor's degree in computer science. I am currently a software developer at Jarvis Consulting Group, where I have gained experience working in an Agile environment, developing various projects using technologies such as Java, PostgreSQL, Bash, Maven, Docker, and Git. I also have experience using other technologies for academic projects, including React, Node.js, MongoDB, and Python. My passion for computer science, which began in a high school introductory class, stems from my love of overcoming difficult problems with creative solutions. I am looking for an opportunity to apply and grow my skill-set in the software development or full-stack industry.

Skills

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

Competent: Javascript, React, Node.js, Express.js, Docker, LaTeX

Familiar: Haskell, MongoDB, HTML, CSS, Angular

Jarvis Projects

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

Cluster Monitor [GitHub]: Designed an application in Bash and SQL used to monitor system specifications and performance on a cluster network. Each system in the network gathers hardware specifications and resource usage using Bash scripts, which are then submitted to a PostgreSQL database, hosted on a single system running a Postgres Docker container. The application is scheduled to run regularly on each system using crontab.

Core Java Apps [GitHub]:

- Twitter App: Developed a CLI application in Java used to perform CRD operations on Tweets. Using the arguments provided from the command-line, the application submits the information to the Twitter REST API. The OAuth library was used to authenticate the app to a user account, Maven for building and dependency management.
- JDBC App: Developed an application in Java using the JDBC API to perform CRUD operations on a Postgres database. App implements DAO pattern to allow for abstraction of database operations. App built using Maven.
- Grep App: Developed an application in Java emulating the Linux grep utility. Using Java regex libraries, app searches through files in a specified directory and all of its sub-directories recursively, listing lines that match the regular expression provided. App built using Maven, and containerized using Docker.

Highlighted Projects

Helping Hands [GitHub]: Created a full-stack web application as part of a team of 4. Application was designed near the beginning of the COVID-19 pandemic as a forum where elderly, immunocompromised, and any other users can make requests that can be fulfilled by other users. Posts were listed in a Twitter-like feed, which was created, along with the rest of the front-end, using React. Other features included direct messages, a leaderboard page, and Google Maps integration. The back-end and REST API handling user and post data were created using Node.js, Express.js, and MongoDB. App was hosted online using Heroku.

Professional Experiences

Software Developer, Jarvis (November 2022 - present): Developed various applications for uses such as system monitoring, finding certain strings in files, and post/view/delete Tweets. Used technologies including Java, Bash, SQL, Docker, Maven, Linux, and Git. Worked in a Scrum/Agile environment, with daily stand ups and bi-weekly sprint planning meetings.

Education

University of Toronto Mississauga (2017-2022), Honours Bachelor of Science, Computer Science - University of Toronto Scholar - UTM Entrance Award - GPA: 3.2/4.0

Miscellaneous

- Cooking
- Competitive gaming
- Music