

Michael Sim

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SKILLS

Technical: Java, Python, JavaScript, HTML/CSS, SQL, NoSQL, Git, Agile, REST API

Technologies: ReactJS, Redux, Hadoop, Spark, Maven, MongoDB, Express.js, Node.js, JavaFX, MySQL, SQLite, MS SQL Server, Unix/Bash, JUnit, Mockito/PowerMock, Tomcat, Airflow, GCP, AWS, Azure

EXPERIENCE

Brooksource – Remote

Software Engineer Consultant (The Home Depot)

June 2021 – Present

- Built and maintained automated workflows using Python and SQL for Apache Airflow to process hundreds of thousands of SKUs weekly
- Created and maintained applications for ETL tasks using Java for Google Cloud Dataflow to read from and write to BigQuery and Bigtable
- Designed and developed RESTful APIs using Spring Boot and HBase

Stonebranch – Alpharetta, GA

Software Engineer Intern

Jan 2021 – June 2021

- Contributed to development of client side and server side code for Universal Controller using Java and SmartGWT
- Use SCRUM for agile development and participate in team-led solutions such as code reviews and daily standups
- Develop, implement, and maintain unit tests of programs using JUnit and Mockito/PowerMock

MARX CryptoTech LP – Buford, GA

Technical Support Intern

Sep 2018 – Nov 2018

- Developed utilities in Java to regression test product API
- Provided technical support to internal and external customers.
- Resolved hardware and software issues relating to the CRYPTOBOX product.
- Reviewed API documentation for technical accuracy before publishing to the company's web site.
- Administered the company's web site using a CMS tool called Pimcore.

PROJECTS

Twitter Clone

<https://github.com/michaeldsim/twitter-clone-mern>

Full-stack web application like Twitter using the MERN stack. Created a CRUD API for the backend to handle all the data in the database using Express, front-end uses React, Redux for state management, and JWT for authentication.

A* Pathfinding Visualizer

<https://github.com/michaeldsim/Algorithms/tree/master/src/application/pathfinding>

This is a visualizer to show how the A* Pathfinding algorithms works created only in JavaFX. It shows the shortest point between two nodes around any barriers.

Discord Bot

<https://github.com/michaeldsim/cell-bot>

Discord is a popular communication platform for gamers. Developed a discord bot using Java that manages multiple discord servers. Contains many features such as music player, administration, and stats lookup. Data is stored locally using SQLite.

EDUCATION

Georgia State University

Bachelor of Science, Computer Science

Dec 2020