

Jonathan Li

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EDUCATION

James Madison University

Graduating May 2021

Bachelor of Science in Computer Science - 3.0/4.0 GPA

Harrisonburg, VA

- **Relevant Coursework:** Python Programming, Operating Systems, Computer Systems, Database Systems, Technical Communications, Computer Graphics Applications, Software Engineering, Data Structures and Algorithms
- **Honors:** Dean's List (Spring 2020)

EXPERIENCE

Software Engineer Intern

June 2020 - Aug. 2020

Fortitude Technologies

Reston, VA

- Built email processing system to automate trend analysis on technical skills extracted from job postings
- Reduced time taken to manually process job posting emails by 80% by automating skill trend analysis
- Developed email processing system with **AWS Lambdas** in **Python** by utilizing HTML parsing and natural language processing tools
- Automated **Amazon RDS** maintenance by updating schema through Liquibase migrations written in **MySQL**
- Designed **PHP** web application to display skill trend analysis using MySQL queries

Undergraduate Research Assistant

Jan. 2020 - Present

Wearable Computing Group, JMU

Harrisonburg, VA

- Built graphical user interface in **Python** to automated data extraction, transformation, and loading from data streams for wearable sensors to reduce preparation time for data analysis
- Wrote Python code to scan for nearby Bluetooth IMU sensors and log acceleration data
- Gathered acceleration and gyroscopic metrics for physical therapy exercises to identify connection between data and sensor positioning

Database Development Intern

May 2018 - Aug. 2018

MagicQuote

Richmond, VA

- Maintained database and performed data analysis on customer information from auto insurance comparison app
- Accomplished increase in customer purchase rate by creating data analysis scripts in **MySQL** to improve demographic targeting
- Optimized database schema and predicted trends in app growth by analyzing customer metrics

PROJECTS

Sorting Algorithm Visualizer | *HTML, CSS, ReactJS*

- Built ReactJS web application to visualize popular sorting algorithms
- Implemented Bubble Sort, Insertion Sort, Selection Sort, Quick Sort

Mixed-Fraction Calculator, JMU | *Java, Agile, Subversion*

- Created Java application with small group to solve operations involving improper, proper, and mixed fractions
- Practiced Agile methodologies to organize project progression over semester

SKILLS

Languages: Java, Python, MySQL, C/C++, HTML/CSS, JavaScript, PHP

Tools: Git, Linux, AWS (S3, Lambdas, RDS, SQS), React