JAMES JANG

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EDUCATION

Virginia Tech   Blacksburg, VA
Bachelor of Science in Computer Science   *Graduation: May 2023*

Coursework: Computer Organization, Computer Systems, Data Analytics and Visualization, Data Structures and Algorithms, Human-Computer Interaction, Multimedia/Hypertext/Information Access Capstone

EXPERIENCE

Software Developer Intern   Nov. 2022 – May 2023
Maximus   *Remote*
- Developed new features for full-stack web applications using JavaScript frameworks such as Angular and Node.js in order to improve the overall experience for the end user and create an efficient environment for developers.
- Enhanced the error handling and logging capabilities of web applications by caching error messages to improve performance, reduce server load, and streamline testing.
- Implemented Java-based REST APIs and controllers for seamless integration with an Angular front-end.
- Handled HTTP requests to communicate with a Java Spring Boot back-end.
- Demonstrated secure coding techniques to conceal private user data and information.
- Practiced agile methodologies and version control using Git to ensure effective collaboration.

PROJECTS

Capstone Smart Parking App | *MongoDB, Express/Node.js, React Native, Flask*   Jan. 2023 – May 2023
- Led a team in developing a mobile application that utilizes machine learning and real-time data from parking sensors to recommend and navigate users to the best parking spots based on their location and arrival time.
- Developed a Python script hosted on a Flask server to train a machine learning model for parking spot availability prediction, leveraging the Prophet library for accurate time-series forecasting.
- Established a backend infrastructure using Express/Node.js, serving as a crucial API endpoint server for facilitating smooth communication between the frontend and Flask server components.

Home Mortgage Calculator App | *Java, Kotlin, Git*   Aug. 2022 – Sept. 2022
- Designed wireframes and prototype of mobile Android application using Figma to identify key features and provide a blueprint for development.
- Built application using Java and Kotlin to implement features such as the user's ability to input their mortgage loan information, calculate monthly payments, and see an amortization schedule.
- Employed the use of Model-View-Controller (MVC) software design architecture to separate and organize the application's user interface, data, and control logic.

Personal Website | *HTML, CSS*   April 2022 – July 2022
- Utilized HTML and CSS to create a personal website that functions as an extension of resume.
- Website can be accessed through the following link: https://jangwool.github.io

COVID-19 Stock Market Data Analysis | *Python*   March 2021 – May 2021
- Conducted research to analyze the impact that the COVID-19 pandemic had on the stock market.
- Applied web scraping techniques to parse and collect stock market data from reputable sources.
- Cleaned and arranged data using Python libraries such as pandas and NumPy to prepare it for visualization using Matplotlib.

SKILLS

Languages: Python, Java, JavaScript, C/C++, HTML, CSS, Kotlin
Frameworks: Angular, Node.js, Spring, JUnit, Flask, React, Express
Tools: Git, Linux, Postman, Maven, MongoDB, Figma, VS Code, IntelliJ, PyCharm, MATLAB, Eclipse
Libraries: pandas, NumPy, Matplotlib, scikit-learn, Prophet