Saad Mahboob

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EDUCATION

Franklin and Marshall College   Expected Graduation: May 2022
B.A. in Computer Science and Business Organizations | **CGPA**: 3.54/4.00
Awards: Honors List Spring'20 and Fall'20 | Dean's List Fall'19 and Fall'18
Other Achievements: Davis Projects for Peace 2021 | Bagdasarian International Study Fund 2019

CodePath | Android Development Bootcamp   Spring 2021

WORK EXPERIENCE

Android Cybersecurity Developer | Franklin and Marshall College   June 2021 – Aug 2021
- Developed a research software with my academic advisor to identify any leaks of sensitive information on device.
- Increased program efficiency by 35%, implementing an optimized graph structure that can perform faster lookups.
- Designed a testing suite and implemented automated unit testing to match the output against expected behavior.

Artificial Intelligence Research Assistant | Franklin and Marshall College   Jan 2021 – May 2021
- Developed an end-to-end universal Task Planning Parser which is not limited to just one programming language.
- Decreased the task planning calculations of the robot by 25s on a larger domain information set.
- Implemented the planner on a socially assistive robot which can plan tasks to help sort medications.

Computer Science Teaching Assistant | Franklin and Marshall College   March 2021 – Present
- Helped students debug code and gain a better understanding of Data Structures and Algorithms in CS1 – CS3.
- Assisted the professor in conducting biweekly lab sessions by guiding students and grading the final submissions.

Software Developer - iOS | Hope Within Community Health Center   April 2021 – July 2021
- Utilized Agile methodology to develop an iOS application for patients to request and track medication refills.
- Helped the clinic improve the refill response time by 40% with patients having 24-hour access to submit requests.

TECHNICAL PROJECTS

Accountya | iOS & Android | Swift, Java
- Created a responsive mobile application for to solve complex cost and financial accounting formulas.
- The app has 750+ downloads and 10,000+ impressions on App Store.

DevChat | Web | React.js, Node.js, Express.js
- Developed a react application where users can login through Google and Facebook and join different rooms to chat in with random users in the same room.
- Implemented server using socket.io and node.js.

Halal Eats | Android | Drexel Hackathon, Java
- Created an android application to help find halal restaurants in the top cities of United States using the Google Maps API and android recycler view.

Algorithm Visualizer | Web | React, HTML/CSS, Bootstrap
- Created a react application using reusable style components for visualizing 5 different sorting algorithms and comparing their time complexities.

Dip Connect | Web | Django, Python, MySQL
- Developed a Django application for students of F&M to search and post about courses, on campus events, daily food options and other school related material.

Hacker Quiz | Android | SQLite, Lottie
- Developed an android application for early-stage CS students to test their performance among 4 different programming languages.
- Users can also track their performance among 3 different difficulty levels in each category.

TECHNICAL SKILLS

Languages: Java • JavaScript • Python • Swift • HTML/CSS • C++ • jQuery • R
Frameworks: React • Node.js • Next.js • Django • Socket.io • Express • Angular
Technologies/Tools: Git • Linux • SQLite • Redux • Bootstrap • MangoDB • Firebase • Android Studio • XCode

COURSEWORK

Mobile Applications Development • Algorithms • Human Robot Interaction • Python Problem Solving (CS1) • Java Data Structures (CS2) • C++ Dynamic Programming (CS3) • Theory of Computational Science • Computer Organizations • Discrete Mathematics • Probability and Statistics • Symbolic Logic • Calculus II • Decrypting Cryptocurrencies