Hamza Mir

https://hamzamir.com

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EDUCATION

UNIVERSITY OF VIRGINIA | BS in Computer Science

Expected May 2021 | Charlottesville, VA • Cum. GPA: 3.82

- Awarded the Rodman Scholarship (chosen as one of the top 34 admitted engineering students in 2017)

EXPERIENCE

OPTIMAL SATCOM, INC | Junior Software Engineer

May 2018 – Aug 2018 | Herndon, VA

- Co-led a development team creating a React Native mobile app for providing satellite dish technicians with the ability to easily test the signal strength between a modem and a satellite
- Educated fellow interns and coworkers in React Native development
- Completed 18 support tickets in C# for Enterprise Capacity Management (ECM), a program designed to aid satellite operators and resellers in leasing and managing their bandwidth effectively
- Added and modified columns, stored procedures, and change scripts on a customer database in SQL

GEORGE MASON UNIVERSITY | Software Development Research Intern

Jun 2016 – Aug 2016 | Fairfax, VA

- Utilized technologies such as Aurelia, Bootstrap, jQuery, D3, HTML, and CSS to contribute to the development of SeeCodeRun (https://seecode.run) - an MVVC web application providing execution visualizations for Javascript code
- Engineered visualizations such as call graphs and interactive DOM trees based on JavaScript code entered by a user

PERSONAL PROJECTS

CONNECT FOUR MINIMAX Jan 2018 - Dec 2018

https://github.com/hmir/connectfour-minimax

- Created a Connect Four minimax AI with heuristic evaluation and alpha-beta pruning, optimized to search 7 moves ahead
- Built a user interface using the Java Swing Library

LAUNDRY @ UVA Sep 2017 - Nov 2018

http://hmir.pythonanywhere.com

- Scrubbed live data on laundry machines across campus using the Selenium web emulator library for Python
- Generated D3.js frequency histograms from scrubbed data to display which times laundry machines are most used

ONLINE LATEX EXAM CREATOR Mar 2017 - Jun 2017

- Wrote a web app allowing users to create math tests in LaTeX using AngularJS and Firebase

BUS DUTY MOBILE APPLICATION Nov 2016 - Mar 2017

- Built a cross platform mobile app for teachers on bus duty to record bus arrival times and generate a corresponding Excel spreadsheet
- Wrote cross-platform code in React Native and native code with the Android and iOS SDKs (Java/Objective-C)

PACKPEN WEBSITE Sep 2017 - Feb 2018

https://hamzamir.com/packpen

- Worked as the webmaster and sole developer of packpen.com, an online business

LANGUAGES

PROGRAMMING

Proficient

Java • Python • JavaScript (Angular, React) • HTML/CSS • C/C++ • C#

Familiar

NodeJS • Assembly • SQL • Swift

SPOKEN & WRITTEN

Native fluency:

English

Proficient:

Spanish