Atif Mohamed Niyaz

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Education

Purdue University - West Lafayette, IN — Dec 2019
Bachelor's of Science in Computer Engineering
Charles W. Brown ECE Scholarship Recipient
Dean's List & Semester Honors Recipient
Coursework: Software for Embedded Systems, Compilers, Microprocessor Systems and Interfacing, Advanced C Programming, Data Structures

Work Experience

Guidebook Inc - San Francisco Bay Area, CA — May 2018 - Present
Software Engineer (Intern - Android)
- Reconstructed components in Kotlin which helped minimize code and improve readability
- Documented technical specification for the design and function of major app components

Gametime United - San Francisco Bay Area, CA — May 2017 - Aug 2017
Software Engineer (Intern - Android)
- Simplified Android app through minimizing third party libraries which improved overall app performance
- Rebuilt a major app component by developing a library that helped boost load time and render quality
- Handled many tasks efficiently by utilizing Agile Development which allowed feature-filled app releases on a consistent two-week basis

Purdue University - West Lafayette, IN — Aug 2017 - May 2018
Teaching Assistant (TA)
- Assisted in teaching two sophomore core classes, ECE 264 (Advanced C Programming) and ECE 270 (Digital System Design)
- ECE 264 covered topics in C Programming but also within Image Processing, Multi-Threading, and Huffman Encoding
- ECE 270 covered topics including the analysis of CMOS logic gates and analysis and design of combinational, sequential and computer logic circuits

Project Experience

Smart Dorm — Apr 2018 - May 2018
Raspberry PI, Embedded C, Java, Android Studio, Eclipse, GDB
- Designed a Raspberry PI based device that fetched weather, time, and current headlines which output data through a LCD screen and a speaker
- Developed an Android app that sent alarms and notifications to Smart Dorm utilizing a Bluetooth and UART interface

FRC Gameplan — Feb 2014 - Present
Kotlin, Java, Android Development, Android Studio
- Improved game strategy by creating an Android app that served as an electronic whiteboard
- Innovated by working with users through beta testing in order to develop new app features
- Shared with the FRC community by publishing to Google Play, attracting 1000+ downloads

Technical Skills

C, Java, Kotlin, Python, Embedded C, ARM Assembly
Android Studio, Eclipse, IntelliJ, Git, GDB, Valgrind, Emacs
Arduino, Raspberry PI, OpenCV, Spice, Bluetooth, SPI, UART, I2C

Service

Delta Mu Kappa - Entrepreneurship Fraternity — Jan 2018 - Present
FIRST Robotics Competition - Programming Mentor — Aug 2016 - Mar 2017
Purdue Philharmonic Orchestra - Second Violin — Aug 2016 - Dec 2016