Ashkan Vafaee

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Education

Master of Science, Electrical and Computer Engineering **May 2021**
The University of Texas at Austin
Cumulative GPA: 3.94/4.00
Concentration: Software Engineering and Systems

Bachelor of Science, Electrical and Computer Engineering **May 2019**
The University of Texas at Austin
Cumulative GPA: 3.81/4.00

Related Coursework: Algorithms | Operating Systems | Computer Architecture | Concurrent and Distributed Systems | Multicore Computing | Software Testing | Embedded Systems | Data Mining

Experience

Software Engineering Intern, Qualcomm **5/20 – 8/20**

- Developed a feature-rich validation tool using Python for camera and display workloads on automotive SoC's
- Improved the scalability of validation processes by automating a large set of SoC hardware checks within tool
- Designed a comprehensive testing methodology to ensure tool's correctness and compatibility with Jenkins
- Communicated daily with systems engineers to expand domain knowledge and receive feedback on tool progress

Software Engineering Intern, Texas Instruments **5/18 – 8/18**

- Investigated and resolved firmware build issues for latest SoC device by updating firmware automation tool
- Conducted boot testing of system firmware using simulation software and created failure reports
- Designed a debug translation tool using Python to help customers self-analyze application issues
- Utilized Linux and Git version control system under Agile development principles for all software development

Product Test Engineer Intern, NXP Semiconductors **5/17 – 8/17**

- Independently completed four software projects to increase quality and efficiency of test engineering processes
- Improved quality of datalog difference reports by developing Ruby script to filter 94% of unimportant data
- Automated storage of device flash memory contents by creating a VBA tool internal to a test program
- Designed VBScript program to more efficiently identify device specification sheet changes
- Optimized device performance evaluations by automating targeted test data extraction process

Skills

Proficient in Java, C, C++, Python, Ruby, Visual Basic, VBScript, VBA, and ARM assembly language
Experience with CUDA programming, MATLAB, HTML, CSS, and JUnit testing
Software development on Linux, Eclipse, Microsoft Visual Studios, and Keil uVision
Microsoft Office proficiency

Accomplishments

Recipient, University of Texas at Austin Presidential Achievement Scholarship, 2015-2019
Recipient, Iranian Scholarship Foundation Undergraduate Scholarship, 2015-2019
Webmaster, University of Texas at Austin IEEE Computer Society, 2017-2020