Sahil Ashar

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EDUCATION

Bachelor of Science, Electrical and Computer Engineering (May 2020)
The University of Texas at Austin
Business Foundations Minor

Related Courses: Embedded Systems, Digital Logic Design, Advanced Circuit Theory, Intro to Management, Software Design and Implementation I & II, Signals and Systems, Requirements Engineering, Algorithms, Operating Systems, Concurrent and Distributed Systems, Engineering Communication, Rocket Engineering Practicum, Software Testing

SKILLS

Programming Languages: Java, C, C++, C#, ARM Assembly, x86 Assembly, Verilog, .NET, Angular, HTML, CSS, Git, Bash, MATLAB
Software and Cloud: AWS, JIRA Software, IBM Mainframe, JetBrains Toolbox, Visual Studio Toolbox, KiCad, PCBArtist, Linux/UNIX, Windows

WORK EXPERIENCE

Distributed Systems Technical Expert, *Texas Rocket Engineering Lab* **01/19 – present**
- Developing software and sensor packages for recovery module deployment and data acquisition
- Developing distributed architecture for primary flight computer and NI sbRIOs throughout the rocket
- Implemented DevOps standardization for TREL, improving efficiency of Agile sprints by 50%
- Utilized C, C++, ARM ASM, Python, BME280 and BNO055 IMU sensor packages, and sbRIO-9606

Software Engineering Intern, *Fidelity Investments* **05/18 – 08/18**
- Developed redesign of main product, moving from pure .NET to .NET in conjunction with Angular
- Drafted mock plan for a new product, defined the client-side requirements and created a release timetable
- Oversaw the end-to-end development of an internal testing tool, including documentation
- Nominated for “Intern of the Summer”
- Utilized a Full-Stack, which included Angular, node.js, C#, .NET, and SQL

Software Engineering/Project Management Intern, *Fidelity Investments* **05/17 – 08/17**
- Lead development stand-ups while training for the Certified Scrum Master certification
- Enhanced legacy code through conversion of C++ to Java
- Developed prototype of an application to help young people begin investing

PROJECT EXPERIENCE

Space **01/17 – 05/17**
- Led hardware assembly and software development for an adaption of the classic Space Invaders
- Wrote C and ARM Assembly code for use on the TM4C123G microcontroller
- Built DAC, ADC, and UART systems for hardware gameplay

AFFILIATIONS

Student Engineering Council
Independent Initiatives Lead **08/18 – present**
Academic Affairs Corporate Relations Chair **08/17 – 07/18**
Engineering Research Events Team Lead **08/16 – 07/17**
Research Student Advisory Council **01/17 – 01/18**
Institute of Electrical and Electronics Engineers **08/16 – present**

ACCOMPLISHMENTS

Taco Bell Live Más Scholar, *2016 & 2018*
Presidential Service Award – Silver, *2016*
Presidential Service Award – Gold, *2015*
Eagle Scout, *2014*