Sahil Ashar

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EDUCATION

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

Related Courses: Concurrent and Distributed Systems, Operating Systems, Algorithms, Software Testing, Embedded Systems, Digital Logic Design, Intro to Management, Software Design and Implementation I & II, Requirements Engineering, Engineering Communication, Rocket Engineering Practicum, Real-Time Digital Signal Processing

SKILLS

Programming Languages: Java, C, C++, Python, ARM Assembly, Git, Bash, x86 Assembly, C#, Verilog, .NET, Angular, HTML, CSS, MATLAB
Software and Cloud: AWS, Azure, GCP, Docker, Jenkins, JIRA, KiCad, PCBArtist, Linux, Windows

WORK EXPERIENCE

Lead AvGNC Systems Engineer, *Texas Rocket Engineering Lab*   **01/19 – present**
- Managing a team of 24 undergraduate and 6 graduate students to help develop industry level engineers
- Developing distributed architecture for flight computers to ensure at least 85% data consistency during flight
- Implemented PM/Agile Standardizations in AvGNC and TREL to increase workflow efficiency by 50%
- Oversaw the implementation of new hiring processes, leading to a 70% retention rate between semesters

Systems Software Engineering Intern, *Riot Games*   **05/19 – 08/19**
- Developed *Automated Data Pipelines* to ensure data consistency across multiple global data centers
- Designed an internal API to assist with data retrieval, optimizing previous processes by 60%
- Deployed and managed containerized data pipelines in DockerJenkins, saving 10-20 hrs/wk of manual work
- Triaged live issues occurring during roll-out of new features and game modes

Software Engineering Intern, *Fidelity Investments*   **05/18 – 08/18**
- Developed redesign of main product to improve Account Transfer speeds by 25%
- Oversaw the end-to-end development of an internal testing tool, to upgrade QA and Testing standards
- Drafted mock plan for a new product, defined the client-side requirements, and created a release timetable
- Nominated for "Intern of the Summer"

Software Engineering/Project Management Intern, *Fidelity Investments*   **05/17 – 08/17**

PROJECT EXPERIENCE

The Alito Index, *HackTX 2019*   **11/19**
- Project to determine the physical similarity of a Congressional Class to Justice Samuel Alito
- Trained the Azure Facial Recognition and Image Classification APIs to create a model based on 3.6k images
- Determined a correlation between a given Congressional Class and financial data for specific industries

AFFILIATIONS

Student Engineering Council	
Independent Initiatives and Policy 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, 2019*	Presidential Service Award – Gold, *2015*
Presidential Service Award – Silver, *2016*	Eagle Scout, *2014*