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, Software Design and Implementation I & II, Requirements Engineering, Engineering Communication, Rocket Engineering Practicum, Software Engineering and Design Laboratory, Probability and Random Processes, Stochastic Processes, Intro to Management

SKILLS

Programming: Java, C, C++, Python, ARM Assembly, Git, Bash, x86 Assembly, C#, Verilog, .NET, Angular, HTML, CSS, MATLAB, NoSQL
Software and Cloud: AWS, Azure, GCP, Docker, Jenkins, JIRA, Linux, UNIX, Kubernetes, MongoDB

PROFESSIONAL EXPERIENCE

Machine Learning Engineering Intern, *KUNGFU.AI*   **02/19 - Present**

Lead Avionics Systems Engineer, *Texas Rocket Engineering Lab (TREL)*   **01/19 – Present**
- Leading a team of 24 undergraduate and 6 graduate students to develop hardware and software platforms for a liquid bipropellant rocket
- Designed Distributed Architecture for Flight Computers using C++ to collect, analyze, and ensure sensor data consistency
- Implemented Agile Methodologies across the company, leading to 50% increase in productivity and overall efficiency
- Implemented a continuous feedback culture, enabled agency over individual work, and utilized employee sentiment analysis to increase the overall employee satisfaction and improve retention rate across the company by 70%

Systems Software Engineering Intern, *Riot Games*   **05/19 – 08/19**
- Developed and orchestrated *Automated Containerized Data Pipelines* using Python, AWS, Kubernetes, and DockerJenkins; ensuring data consistency across multiple global data centers and saving 20 hours/week of manual work
- Optimized previous data collection processes by 60% by designing an API to assist with data retrieval
- Triaged live issues occurring during roll-out of new features and game modes

Software Engineering Intern, *Fidelity Investments*   **05/18 – 08/18**
- Improved Financial Account Transfer speeds by 25% by developing a redesign of the Account Transfer Platform
- 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

AlphaLine (Patent Pending), *Senior Capstone Project*   **01/19 – Present**
- AlphaLine is a unique body-position tracking solution for athletes, industry professionals, military, and more
- Accurately determines real-time positional data, given by placing Inertial Measurement Units along specific bodily areas
- IMU Quaternion data is analyzed in space & transferred via BLE to mobile devices for processing and real-time feedback

The Alito Index, *HackTX 2019*   **11/19**
- Project to determine correlation between a given Congressional Class and their physical similarity to Justice Samuel Alito
- Trained an image recognition ML model based on 3.6k images, using the Azure Image Classification APIs
- Created a regression model between a given Congressional Class and Goldman Sachs financial data for specific industries

AFFILIATIONS

Student Engineering Council, *Independent Initiatives and Policy Lead*   **08/16 – Present**
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*