

Aimun Khan

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EDUCATION

The University of Texas at Austin Spring 2020
B.S., Electrical and Computer Engineering GPA: 3.5
Technical Cores: Data Science, Computer Architecture, Software Engineering Minor: History
Relevant Courses: Data Science Lab, Mobile Computing (Graduate), Algorithms, Embedded Systems
B.A., Mathematics
Relevant courses: Probability, Linear Algebra, Differential Equations, Discrete Math

TECHNICAL SKILLS

Proficient in: Python, C, C++, Java, Bash
Familiar with: Assembly (ARM Cortex M4), Swift, VHDL
Technologies: Docker, Git, Jenkins, Numpy, Pandas, LaTeX

TECHNICAL EXPERIENCE

Software Development Intern - *Fujitsu Network Communications (Dallas, TX)* May - August 2018
· Implemented server-based multi-QEMU emulation via Docker Swarm
· Designed Amazon Echo skill to check status of Jenkins builds using AWS Lambda
· Utilized Agile development, DevOps practices, Docker, Jenkins testing, JIRA, Git

ACADEMIC PROJECTS

Fretail Hackers Spring Hackathon - 2nd Place *JavaScript, Paper.js, Howler.js, HTML*
· Developed web app that uses interactive audio and visuals to combat user anxiety
· Coordinated with team of four to develop audio and implement app in 8 hours
Fitbit Heart Monitor - HackTX *JavaScript, Python, React Native, Fitbit Studio*
· Made Fitbit app to text location to emergency contact during heart attacks
· Interfaced sensors to poll heart rate from fitbit and store on web app
Embedded Systems Video Game *C, ARM Cortex M4*
· Designed interrupt-based Mario style video game on TI TM4C microcontroller
· Implemented logic for pressure-sensitive jumping and parallax background
Web Scraping Registration Tool *Python, Selenium, SMTPlib, cryptography, Docker*
· Scrapes UT registration for opening of closed classes, emailing user within 30 seconds
· Used Selenium webdriver to log in, deployed script via AWS Docker container

OTHER WORK EXPERIENCE

Software Design Teaching Assistant - *UT Electrical and Computer Engineering* August 2018 - Present
· Hold recitation sections for a Data Structures and Object Oriented Programming class in C++ and Linux
· Lead lectures on programming techniques, implemented test cases for batch grading
First-Year Student Mentor - *The University of Texas at Austin* August 2018 - Present
· Assist social and academic integration of 15 freshmen into college atmosphere through weekly seminars
· Workshop with students on time management, study skills, and team building
Debate Consultant - *National Speech and Debate Association* August 2016 - Present
· Coached state champion, junior national champion, third or better at every Texas TOC qualifying tournament
· Qualified 4 debaters to Tournament of Champions, 3 to Nationals, and 10 to State in Lincoln Douglas Debate
· Practice with students weekly on presentation skills, research, adapting to different audiences, critical thinking

OTHER INFORMATION

Interests and clubs: Guitar, Jazz, Chess

Citizenship: American, Canadian