

umersalman

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programming

CSS3 & HTML5
PHP (♥ Laravel)
MySQL
JavaScript
jQuery
Java, C, C++
LaTeX (this résumé)
Python
TIBASIC
Assembly
MATLAB
LabVIEW
Git, SVN, Mercurial

operating systems

Linux
Android
OS X
iOS
Windows

software skills

SolidWorks
Burp Suite
ROS2
Eclipse
OpenCV
Android Studio
ADB/Fastboot

education

2016–Now

Electrical and Computer Engineering - Fall 2020

The University of Texas at Austin

Tech Cores: Software Engineering & Design and Academic Enrichment

Minor: Business

Embedded Systems Lab Keyboard:

Created a USB 10-Keyless RGB Keyboard with Macro Recording using TM4C microcontroller
<https://youtu.be/fSX6dDx9jvY>

Entrepreneurship Senior Design (CTO):

- Built a hardware/software platform to process physiological indicators in children
 - Designed PCB with galvanic skin response sensor, heart rate sensor, and micro-phone for wearable
 - Built Azure/Tableau web platform for healthcare professionals
- Formed a business plan and presented to biomedical industry experts

extracurriculars

2017–2020

Texas Aerial Robotics (TAR)

The University of Texas at Austin

Founder and President

- Lead a 40 person org. to compete in the International Aerial Robotics Competition
- Build and program cutting-edge, fully autonomous quadcopters
- Use computer vision and sensors, such as LiDAR and optical flow, to target and interact with moving ground robots in a GPS-denied environment
- Research drone swarming and drone control through human voice and gestures
- Develop abilities to interact with modules on moving reference frames (boats) 2mi away

experience

2020

National Geospatial-Intelligence Agency (WFH)

San Antonio, Texas

Cybersecurity/Software Development Intern

- Developed a grammar assistance tool in Javascript for Weekly Activity Reports
 - Corrects 6,000 writing mistakes to reduce the amount of time in editing process
 - Planned for use throughout NGA, such as in Congressional Budget Reports, etc
- Assisted in cyber-deception (honeypot "network devices") tool analysis

2019

National Geospatial-Intelligence Agency

St. Louis, Missouri

Cybersecurity Intern

- Active Clearance: TS/SCI
- Assisted Detect and Incident Response teams
- Improved rulesets for Linux compromise detection
- Built PowerShell scripts to improve threat detection and analysis

2018

Visa Inc.

Austin, Texas

Security Engineering Intern

- Created automated penetration testing suite using Burp Suite and Python to increase security while decreasing time in security testing stage
 - Tool tests Visa products & APIs for vulnerabilities such as XSS and Clickjacking
 - Learns from cybersecurity team to eliminate false positives

2017

General Dynamics Mission Systems

San Antonio, Texas

Cybersecurity Intern

- Developed testing tools using OpenCV and Python for PitBull, a Multilevel Security (MLS) Linux OS based on RHEL, and Trusted Network Environment (TNE)
- Created PitBull Health Console for diagnosing system/network problems

2015

Parlevel Systems

San Antonio, Texas

Software Development Intern

- Worked on the development of analytical software for vending machine operators
- Developed the company's foray into micromarkets, which became a core product