

umersalman

contact

24 Galleria Drive
San Antonio, TX 78257
USA

(936) 463 8626

umer936@gmail.com
umer936@utexas.edu
umer936.com

github.com/umer936
fb://Umer936

programming

CSS3 & HTML5
PHP (♥ Laravel)
MySQL
JavaScript
jQuery
Java, C, C++
L^AT_EX (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 microphone for wearable
 - Built Azure/Tableau web platform for healthcare professionals to view
 - 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 across NGA, such as in reports to Congress, 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