

# umersalman

## about

San Antonio, TX 78257  
USA

(936) 463 8626

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

github.com/umer936  
fb://Umer936

## programming

CSS & HTML  
♥ PHP (Laravel,  
CakePHP)  
MySQL  
JavaScript, jQuery  
Java, C, C++  
L<sup>A</sup>T<sub>E</sub>X (this résumé)  
Python  
TIBASIC  
Assembly  
MATLAB  
LabVIEW  
Git, SVN, Mercurial

## operating systems

Linux  
Android  
OS X  
iOS  
Windows

## software skills

SolidWorks  
Burp Suite  
ROS2  
OpenCV  
Android Studio  
ADB/Fastboot

## education

2016–2020

### BS in 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 to view
- Formed a business plan and presented to biomedical industry experts

## experience

2021–Now

### Southwest Research Institute

San Antonio, Texas

Computer Scientist

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

- 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

## extracurriculars

2017–2020

### Texas Aerial Robotics (TAR)

The University of Texas at Austin

Founder and President

- Led 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