umer**salman**

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programming

CSS3 & HTML5
PHP (♥ Laravel)
MySQL
JavaScript, CoffeeScript
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
Eclipse
OpenCV
Android Studio
ADB/Fastboot

education

2016–Now — **Electrical and Computer Engineering - May 2020** — The University of Texas at Austin
Technical Cores: Software Engineering & Design and Academic Enrichment
Minor: Business

extracurriculars

2017–Now — **Texas Aerial Robotics (TAR)** — The University of Texas at Austin
Founder and President
- Lead a 30 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

2013–2016 — **FIRST Robotics Competition** — Brandeis High School, TMI - The Episcopal School of Texas
Team Captain, FRC3481 and FTC6221
- Build 120 lbs robots to compete against 3,000+ teams
- Won Motorola Quality Award (x3), GM Industrial Design Award, and Delphi Excellence in Engineering Award

experience

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
  - Tests Visa products & APIs for security 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 PitBull, a Multilevel Security (MLS) Linux OS based on RHEL, and Trusted Network Environment (TNE) testing tools using OpenCV and Python
  - PitBull/TNE are used by U.S. Federal Agencies
- 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

projects

2012–Now — **Ingress (Niantic, Inc.)**
Regional Moderator
- Created and manage the South Texas roster website and database
- Improved the usability of Google's web app by JavaScript bookmarklets for thousands of users

2017 — **Smash Bros LaunchPad** — Austin, Texas
Developed in C and Assembly, adaptation of Smash Bros on a TI microcontroller
Wrote LCD drivers, joystick and button inputs, and audio and vibration outputs

2015–2016 — **Car Diagnostics Logger** — San Antonio, Texas
Raspberry Pi in my glove compartment to log my car's stats (intake temp, MPG) every $\frac{1}{4}$ sec.