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programming

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

operating systems

Linux
Android
OS X
iOS
Windows

software skills

Basic SolidWorks
CyberLink PowerDirector
Eclipse
TableAU
Android Studio
Paint.NET

education

- 2016–Now **Electrical and Computer Engineering Class of 2020** University of Texas at Austin
- 2013–2016 **High School at Texas Military Institute (TMI)** TMI - The Episcopal School of Texas
- 2013 **Certification of Graduate-Level Course** Royal Holloway University of London
- Graduated an online course titled "Malicious Software and its Underground Economy: Two Sides to Every Story." Learned about traditional and mobile security threats and the ecosystem that drives that illegal, yet profitable, business

extracurriculars

- 2017–Now **Texas Aerial Robotics (TAR)** University of Texas at Austin
- Founded a club to compete in the International Aerial Robotics Competition with our fully autonomous quadcopter. Uses computer vision and multiple sensors to target and interact with moving ground robots. Placed 4th in our first run
- 2016–Now **IEEE-Communications Society (IEEE ComSoc)** University of Texas at Austin
- Spread awareness about and prevention of software and hardware vulnerabilities
- 2015–2016 **TMI Maker Club** TMI - The Episcopal School of Texas
- Founded and manage a club where students can come together to make things or learn to make things, whether they be portable phone chargers, wood frames, or soldiering skills
- 2015–2016 **CyberPatriot** TMI - The Episcopal School of Texas
- Ranked Platinum, the highest tier, in a National cybersecurity competition funded by Northrop Grumman Corp.
- 2014–2016 **FIRST Robotics Competition** Brandeis High School
- Build 120 lbs robots to compete against more than 3,000 teams from 19 countries. Team Captain of 3481 BroncBotz, 1 of 91 BETA teams chosen for robust design, programming skills, and performance on the field. Won awards including Motorola Quality Award (x3), GM Industrial Design Award, and Delphi Excellence in Engineering Award
- 2013–2016 **FIRST Tech Challenge** TMI - The Episcopal School of Texas
- Build robots to compete against over 5,000 other teams from various countries. Team Captain of 6221 Panther Bots Alpha, ranked in the top 3% of teams worldwide. Have appeared on CBS, been recognized by city council, and awarded certificate of congratulations by mayor

volunteering

- 2015–2016 **TeamUp! Challenge** San Antonio, Texas
- Plan and teach a science curriculum about the earth, biodiversity, and energy for local elementary schools through the San Antonio Spurs' "Silver and Black Give Back" program
- 2014–2016 **HACKERS, Inc.** San Antonio, Texas
- Teach LEGO Mindstorms robotics at a nonprofit camp for elementary and middle schoolers
- 2013 **National Museum of Nuclear Science** Albuquerque, New Mexico
- Hosted "Dynamics of Flight" exhibit and taught visitors about the history and science of everything nuclear

awards

2014–2016	National Honors Society	TMI - The Episcopal School of Texas
2015	AP Scholar with Distinction	TMI - The Episcopal School of Texas
2015	National Merit Commended	TMI - The Episcopal School of Texas

experience

2012–Now	Ingress (Niantic, Inc.) <i>Regional Moderator</i> Ingress is a game made by Google where the entire world is the playing field shared by 2 teams <ul style="list-style-type: none">• Created and manage the South Texas roster website and database<ul style="list-style-type: none">– satxresist.com• Improved the usability of Google's web app by JavaScript bookmarklets for thousands of users• Manage cross-team affairs and global operations	
2017	General Dynamics Mission Systems <i>Cybersecurity Intern</i> <ul style="list-style-type: none">• Worked on PitBull and TNE development and management tools<ul style="list-style-type: none">– PitBull is a Multilevel Security (MLS) Linux Operating System based on Red Hat Enterprise Linux– Trusted Network Environment (TNE) is built on top of PitBull and shipped to U.S. Department of Defense and Federal Agencies for handling operations and information at any security level• Created PitBull Health Console/LogViewer<ul style="list-style-type: none">– Reduces time to diagnose system problems– Analyze multiple machines in one session• Developed PitBull/TNE testing tools<ul style="list-style-type: none">– Tests through operating system tasks to ensure successful integration– Can run headless or be configured to run specific tests	San Antonio, Texas
2015	Parlevel Systems <i>Summer Intern</i> <ul style="list-style-type: none">• Worked on the development of analytical software for vending machine operators• Developed the company's foray into micromarkets; now in use at Rackspace/Geekdom	San Antonio, Texas

projects

2012–Now	Android Created ROMs and wireless chargers for the HTC One X and OnePlus One (adb/fastboot)	San Antonio, Texas
2017	Smash Bros LaunchPad Developed in C and Assembly, this adaptation of Smash Bros runs on a TI LaunchPad. Wrote LCD drivers, audio output control, joystick and button inputs. Wired inputs, display, audio jack, and vibration motor to board	Austin, Texas
2016	Waterslide Right after graduation, my friends and I built a 12' tall waterslide in 2 days	Boerne, Texas
2015–2016	Car Diagnostics Logger Raspberry Pi in my glove compartment for logging my car's stats (intake temp, RPM, MPG, etc) every 1/4 second	San Antonio, Texas
2013	Chromecast Discovered tools that were published on ReadWriteWeb and XDA Developers	San Antonio, Texas
2013	CygwinHere Cygwin is a Windows mod to bridge CMD and Linux CLI. My registry tweak ports the "Open in Terminal" function to Cygwin	San Antonio, Texas