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programming

CSS3 & HTML5
PHP (♥ Laravel)
MySQL
JavaScript, CoffeeScript
jQuery
Java, C++
L^AT_EX (this résumé)
Ruby, Python
TIBASIC
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
- 2012–2013 **9th grade** Saint Andrew's Episcopal School

extracurriculars

- 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
Compete in a National cybersecurity competition funded by Northrop Grumman Corp. and the National Security Agency
- 2014–2016 **Quiz Bowl** TMI - The Episcopal School of Texas
Compete with other schools in trivia in all academic subjects
- 2014–2016 **National Honors Society** TMI - The Episcopal School of Texas
Honors students who display excellence in scholarship, leadership, service, and character
- 2013–2016 **Varsity Soccer** TMI - The Episcopal School of Texas
District Champions in 2013
- 2013–2016 **TMI Science Club** TMI - The Episcopal School of Texas
Club in which we create science projects and visit science events around San Antonio
- 2014 **National Student Leadership Conference** Northwestern University
Attended an Engineering summer camp at a university
- 2013–2014 **Track and Field** TMI - The Episcopal School of Texas
Competed in 400m and 800m events at various Texas meets
- 2013 **Varsity Tennis** Saint Andrew's Episcopal School
Primarily played doubles
- 2012–2013 **Mississippi Science Bowl** Saint Andrew's Episcopal School
Competed in trivia with schools across the state in various science subjects
- 2012–2013 **Junior Varsity Soccer** Saint Andrew's Episcopal School
Played starting midfielder

awards

2015	AP Scholar Received due to high achievement on multiple AP tests	TMI - The Episcopal School of Texas
2015	National Merit National Merit Commended Student	TMI - The Episcopal School of Texas
2013–2014	National Spanish Exam Earned 2 Silver awards for Spanish proficiency	TMI - The Episcopal School of Texas
2013	Erasmus Award Awarded to the student that is most driven and most excited about learning	Saint Andrew's Episcopal School

projects

2012–2016	Android Heavily involved in the Android development community <ul style="list-style-type: none"> • Software <ul style="list-style-type: none"> – Created ROMs for the HTC One X and OnePlus One (adb/fastboot) – Built an app to allow phone/tablet to function as a 2nd monitor for a computer – Made scripts for a phone to function as a smartwatch (WiFi, Bluetooth) – Named a Snapchat filter • Hardware <ul style="list-style-type: none"> – Built an IR blaster – Created a wireless charger for HTC One X 	San Antonio, Texas
2013	Simple Source Viewer Simple, easy to use app for Windows 8, RT, 8.1, and 10 to allow viewing of the source code of a webpage	San Antonio, Texas
2013	Chromecast Discovered additional tools to expand the potential of the \$35 device. Findings were published on ReadWriteWeb, XDA Developers, and other tech sites	San Antonio, Texas
2013	CygwinHere Cygwin is a Windows CMD mod to bridge CMD and a Linux Terminal. My CygwinHere registry tweak ports over the "Open in Terminal" function	San Antonio, Texas
2012–2014	ExtempEngine ExtempEngine was a Chrome App to automatically download and sort articles from news sources around the world. This allowed easy access to those sources during an extemporaneous debate round without having an internet connection	San Antonio, Texas

robotics

2014–2016 **FIRST Robotics Competition**

Brandeis High School

Build 120 lbs robots to compete against more than 3,000 teams from 19 countries. My team, 3481 BroncBotz, is 1 of 91 BETA teams chosen for robust design, programming skills, and performance on the field. Won multiple awards, including the Motorola Quality Award and the GM Industrial Design Award

- Team Captain
 - Selected due to skills, teamwork, and robotics knowledge
 - Ensure team performs well and does the best the team can
 - Teach newer teammates
- Head of Programming
 - Use Eclipse to program the robot using a C++/Lua hybrid
 - Test and report back to FIRST, WPI, and National Instruments regarding BETA software which includes
 - * Open-sourcing every piece of Team-developed code
 - * Ensuring all code is well commented and correctly documented
 - Teach younger teammates how to
 - * Program in C++ using Eclipse IDE
 - * Understand what the various toolchains and libraries are
 - * Flash the roboRIO
 - Run system checks to ensure robot communicates with computer and controllers prior to a match
 - Create vision systems for the robot drivers
- Head of Scouting
 - Create a system for teammates to use for statistics on other teams
 - Organize the data using spreadsheets, TableAU, and in house built programs
 - Create a "pick list" of robots to alliance with, based off quantitative and qualitative data, as well as the robots' compatibility with our own
- Team Lead in Design
 - Facilitate the design process to take all aspects of the competition tasks into consideration for the design
 - Manage the SVN repository containing the SolidWorks CAD files
- Team Lead in Build
 - Teach newer teammates to use power tools safely
 - Oversee that parts are fabricated according to the design

2013–2016 **FIRST Tech Challenge**

TMI - The Episcopal School of Texas

Build robots to compete against over 5,000 other teams from various countries. My team, 6221 Panther Bots Alpha, has ranked in the top 3% of teams worldwide, earning us a spot in the world championship

- Team Captain
 - Manage and organize the team's meetings and events
 - Act as a liaison between the school and the team
- Head of Programming
 - Use Java in Android Studio to program the robots
 - Teach the newer teammates how Android Studio and the ZTE Speed control system works
- Team Accomplishments
 - Featured on the FIRST Facebook page
 - Appeared on CBS
 - Recognized at city council and awarded certificate of congratulations by mayor
 - Invited to display at Austin Mini Maker Faire

speech and debate

2012–2013	Policy (CX) Debate An extremely fast paced, evidence-based debate to analyze potential federal government plans	Saint Andrew's Episcopal School
	<ul style="list-style-type: none"> • Qualified and competed at NCFL Nationals • Competed at colleges, including Harvard and Mississippi State • Won 2nd in state 	
2012–2013	International Extemporaneous Prepared and delivered 7 minute speeches regarding international affairs. Ranked highly at every competition	Saint Andrew's Episcopal School
2012–2013	Congress Competed in mock Congressional debate	Saint Andrew's Episcopal School
2012–2013	Degree of Distinction Awarded due to consistently ranking highly in competition. Ranks above Degree of Merit, Degree of Honor, and Degree of Excellence	Saint Andrew's Episcopal School

volunteering

2015–2016	TeamUp! Challenge Plan and teach a science curriculum about the history of the earth and biodiversity for local elementary schools through the San Antonio Spurs' "Silver and Black Give Back" program	San Antonio, Texas
2014–2016	HACKERS, Inc. Teach LEGO Mindstorms robotics at a nonprofit camp for elementary and middle schoolers	San Antonio, Texas
2015	Northside Tech Expo Present our FIRST Robotics Competition robot to Northside ISD students and parents to let them see what STEM programs are available to them	San Antonio, Texas
2014	Austin Mini Maker Faire Showed our FIRST Tech Challenge robots to the public to get them interested about robotics	Austin, Texas
2013	National Museum of Nuclear Science Hosted "Dynamics of Flight" exhibit <ul style="list-style-type: none"> • Ran the flight simulators • Taught visitors about the history and science of everything nuclear • Explained to children the way different planes work 	Albuquerque, New Mexico
2013	Albuquerque Presbyterian Hospital Volunteered at childlife and children's cancer centers, which sought to minimize stress and help children and their families cope with their healthcare experience	Albuquerque, New Mexico
2013	New Mexico Food Bank Distributed food and other items to various charities	Albuquerque, New Mexico
2012	Operation Soccerstring Taught 1 st and 2 nd graders soccer and arts and crafts	Jackson, Mississippi
2012	Our Daily Bread Packaged food for families in need	Jackson, Mississippi
2012	Operation Shoestring Organized school for poverty-stricken children	Jackson, Mississippi

work 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. Thus, coordination on a global scale must occur <ul style="list-style-type: none"> • Created and manage the South Texas roster website <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 to ensure safe play for all • Oversee operations that span multiple continents • Directly communicate with hundreds of others to facilitate operations 	
2011–Now	Socialcu.be <i>Developer, Administrator, and Moderator</i> Developed a social networking platform that is home to over 2,000 users	
2015	Parlevel Systems <i>Summer Intern</i> <ul style="list-style-type: none"> • Worked on the development of analytical software for vending machine operators in North America • Developed the company’s foray into micromarkets <ul style="list-style-type: none"> – Generates roughly \$50/day per location – In use at Rackspace/Geekdom • Created web tools to allow the company itself to run more efficiently 	San Antonio, Texas
2014	Tots N Teens Pediatric Urgent Care <i>Logo Creator and Website Manager</i> Created the logo for a local urgent care clinic	San Antonio, Texas
2014	Umer936 <i>Website Builder</i> Built professional websites for businesses and clients by employing web development skills	San Antonio, Texas

skills and interests

professional: coding, programming, creating, web design, web app creation, software design, building, wiring, computer software, tech

personal: puzzles, math, listening to others (7cupsoftea.com), computer hardware, reading (science and mystery books)

languages: conversant in Urdu, Spanish semi-fluency, can read Arabic and Greek