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programming

CSS3 & HTML5
PHP (♥ Laravel)
MySQL
JavaScript, CoffeeScript
jQuery
Java, C++
L^AT_EX (this résumé)
Ruby, Python
TIBASIC
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

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| 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 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 | Royal Holloway University of London |
| 2012–2013 | 9th grade | Saint Andrew's Episcopal School |

projects

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| 2012–Now | 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)– 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 |
| Now | Password Requirements Currently writing a Chrome extension for crowdsourcing password requirement information | Austin, Texas |
| 2016 | Make Something Great Again Inspired by Donald Trump's slogan and logo, I created makesomethinggreatagain.com | San Antonio, Texas |
| 2016 | Bluetooth Speaker Built a Bluetooth speaker for just under \$4 | San Antonio, Texas |
| 2016 | Waterslide Most seniors party after graduation. My friends and I built a 12' tall waterslide in 2 days instead | San Antonio, 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 | Wii Control Created scripts to allow Wiimotes to operate Windows and Android | San Antonio, Texas |
| 2013 | Simple Source Viewer Simple, easy to use app for Windows 8, RT, 8.1, and 10 to view 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 Developed a Chrome App to automatically download and sort articles from news sources allowing easy access during an extemporaneous debate round without internet connection | San Antonio, Texas |

extracurriculars

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| 2016–Now | American Helicopter Society (AHS) Compete in the International Aerial Robotics Competition with our fully autonomous quad-copter with computer vision guidance system | University of Texas at Austin |
| 2016–Now | Formula Society of Automotive Engineers (FSAE) Design, manufacture, and race a Formula One style racecar against teams from all over the world | University of Texas at Austin |
| 2016–Now | UT Solar Vehicles Team (UTSVT) Design, build, and race solar vehicles for the American Solar Challenge and the Formula Sun Grand Prix | University of Texas at Austin |
| 2016–Now | IEEE-Communications Society (IEEE ComSoc) Spread awareness about and prevention of software and hardware vulnerabilities | University of Texas at Austin |
| 2016–Now | Muslim Student Association (MSA) Carry out religious, social, charitable, literary, athletic, scientific, research, and other Islamic activities | University of Texas at Austin |
| 2016–Now | Longhorn Quiz Bowl Compete in national quiz bowl tournaments involving answering questions across all disciplines, including history, literature, science, and fine arts | University of Texas at Austin |
| 2015–2016 | TMI Maker Club 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 | TMI - The Episcopal School of Texas |
| 2015–2016 | CyberPatriot Ranked Platinum, the highest tier, in a National cybersecurity competition funded by Northrop Grumman Corp. | TMI - The Episcopal School of Texas |
| 2014–2016 | Quiz Bowl Compete with other schools in trivia in all academic subjects | TMI - The Episcopal School of Texas |
| 2014–2016 | National Honors Society Honors students who display excellence in scholarship, leadership, service, and character | TMI - The Episcopal School of Texas |
| 2013–2016 | Varsity Soccer District Champions in 2013 | TMI - The Episcopal School of Texas |
| 2013–2016 | TMI Science Club Club in which we create science projects and visit science events around San Antonio | TMI - The Episcopal School of Texas |
| 2014 | National Student Leadership Conference Attended an Engineering summer camp at a university | Northwestern University |
| 2013–2014 | Track and Field Competed in 400m and 800m events at various Texas meets | TMI - The Episcopal School of Texas |
| 2013 | Varsity Tennis Primarily played doubles | Saint Andrew's Episcopal School |
| 2012–2013 | Mississippi Science Bowl Competed in trivia with schools across the state in various science subjects | Saint Andrew's Episcopal School |
| 2012–2013 | Junior Varsity Soccer Played starting midfielder | Saint Andrew's Episcopal School |

awards

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| 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 |

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 awards including Motorola Quality Award (x3), GM Industrial Design Award, and Delphi Excellence in Engineering 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 all code
 - * Ensuring all code is well commented
 - 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
 - Created an offline website for teammates to use for gathering 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

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| 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

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| 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 |

experience

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| 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 <ul style="list-style-type: none"> – Including a mobile version that receives 33k visits a year • 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 | |
| 2016 | TMI Paths of Life Created a 50 page whitepaper for students at my school to find the best colleges and jobs for their futures | TMI - The Episcopal School of 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 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), typography, computer hardware, reading (science and mystery books)

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

references

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Worked under him during internship
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