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programming

CSS3 & HTML5
PHP (♥ Laravel)
MySQL
JavaScript, CoffeeScript
jQuery
Java, C++
LaTeX (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

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

UTextracurriculars

2016–Now	**American Helicopter Society (AHS)** Roomba roomba	University of Texas at Austin
2016–Now	**Women in ECE (WECE)** Lol	University of Texas at Austin
2016–Now	**UT Solar Vehicles Team (UTSVT)**	University of Texas at Austin
2016–Now	**Unmanned Aerial Vehicle Team**	University of Texas at Austin
2016–Now	**Texas Theme Park Engineering Group (TXTPEG)**	University of Texas at Austin
2016–Now	**Society of Automotive Engineers (SAE)**	University of Texas at Austin
2016–Now	**Longhorn Maker Studio Club (LMS)**	University of Texas at Austin
2016–Now	**American Institute of Aeronautics & Astronautics (AIAA)**	University of Texas at Austin
2016–Now	**IEEE-Robotics & Automation Society (IEEE RAS)**	University of Texas at Austin
2016–Now	**IEEE-Power & Energy Society (IEEE PES)**	University of Texas at Austin
2016–Now	**IEEE-Communications Society (IEEE ComSoc)**	University of Texas at Austin
2016–Now	**Engineers for a Sustainable World (ESW)**	University of Texas at Austin
2016–Now	**Formula Society of Automotive Engineers (FSAE)**	University of Texas at Austin
2016–Now	**Society of Fire Protection Engineers (SFPE)**	University of Texas at Austin
2016–Now	**Muslim Student Association (MSA)**	University of Texas at Austin
2016–Now	**Freshman Engineering Council (FEC)**	University of Texas at Austin
2016–Now	**Machine Learning and Data Science**	University of Texas at Austin
2016–Now	**Autoholics of Texas**	University of Texas at Austin
2016–Now	**3-D Modeling Club**	University of Texas at Austin

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

Ranked Platinum, the highest tier, in a National cybersecurity competition funded by Northrop Grumman Corp.

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**	TMI - The Episcopal School of Texas

Received due to high achievement on multiple AP tests

2015	**National Merit**	TMI - The Episcopal School of Texas

National Merit Commended Student

2013–2014	**National Spanish Exam**	TMI - The Episcopal School of Texas

Earned 2 Silver awards for Spanish proficiency

2013	**Erasmus Award**	Saint Andrew's Episcopal School

Awarded to the student that is most driven and most excited about learning

projects

2012–Now	**Android**	San Antonio, Texas

Heavily involved in the Android development community
- Software
  - 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
  - Built an IR blaster
  - Created a wireless charger for HTC One X

Now	**Password Requirements**	Austin, Texas

Currently writing a Chrome extension for crowdsourcing password requirement information

2016	**Make Something Great Again**	San Antonio, Texas

Inspired by Donald Trumpś slogan and logo, I created makesomethinggreatagain.com

2016	**Bluetooth Speaker**	San Antonio, Texas

Wanted to see how inexpensive I could make a Bluetooth Speaker. Speaker drivers, Bluetooth board, audio splitter, and recycled pieces came to a pricetag of just under $4

2016	**Waterslide**	San Antonio, Texas

Most seniors party after graduation. My friends and I built a 12 foot tall waterslide in 2 days instead

2015–2016	**Car Diagnostics Logger**	San Antonio, Texas

Raspberry Pi in my glove compartment for logging my carś stats (intake temp, RPM, MPG, etc) every ¼ second

2013	**Wii Control**	San Antonio, Texas

Created scripts to allow Wiimotes to operate Windows and Android

2013	**Simple Source Viewer**	San Antonio, Texas

Simple, easy to use app for Windows 8, RT, 8.1, and 10 to allow viewing of the source code of a webpage

2013	**Chromecast**	San Antonio, Texas

Discovered additional tools to expand the potential of the $35 device. Findings were published on ReadWriteWeb, XDA Developers, and other tech sites

2013	**CygwinHere**	San Antonio, Texas

Cygwin is a Windows CMD mod to bridge CMD and a Linux Terminal. My CygwinHere registry tweak ports over the "Open in Terminal" function

2012–2014	**ExtempEngine**	San Antonio, Texas

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

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

| 2012–2013 | **Policy (CX) Debate** | Saint Andrew's Episcopal School |

An extremely fast paced, evidence-based debate to analyze potential federal government plans
- Qualified and competed at NCFL Nationals
- Competed at colleges, including Harvard and Mississippi State
- Won 2nd in state

| 2012–2013 | **International Extemporaneous** | Saint Andrew's Episcopal School |

Prepared and delivered 7 minute speeches regarding international affairs. Ranked highly at every competition

| 2012–2013 | **Congress** | Saint Andrew's Episcopal School |

Competed in mock Congressional debate

| 2012–2013 | **Degree of Distinction** | Saint Andrew's Episcopal School |

Awarded due to consistently ranking highly in competition. Ranks above Degree of Merit, Degree of Honor, and Degree of Excellence

volunteering

| 2015–2016 | **TeamUp! Challenge** | San Antonio, Texas |

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

| 2014–2016 | **HACKERS, Inc.** | San Antonio, Texas |

Teach LEGO Mindstorms robotics at a nonprofit camp for elementary and middle schoolers

| 2015 | **Northside Tech Expo** | San Antonio, Texas |

Present our FIRST Robotics Competition robot to Northside ISD students and parents to let them see what STEM programs are available to them

| 2014 | **Austin Mini Maker Faire** | Austin, Texas |

Showed our FIRST Tech Challenge robots to the public to get them interested about robotics

| 2013 | **National Museum of Nuclear Science** | Albuquerque, New Mexico |

Hosted "Dynamics of Flight" exhibit
- Ran the flight simulators
- Taught visitors about the history and science of everything nuclear
- Explained to children the way different planes work

| 2013 | **Albuquerque Presbyterian Hospital** | Albuquerque, New Mexico |

Volunteered at childlife and children's cancer centers, which sought to minimize stress and help children and their families cope with their healthcare experience

| 2013 | **New Mexico Food Bank** | Albuquerque, New Mexico |

Distributed food and other items to various charities

| 2012 | **Operation Soccerstring** | Jackson, Mississippi |

Taught 1st and 2nd graders soccer and arts and crafts

| 2012 | **Our Daily Bread** | Jackson, Mississippi |

Packaged food for families in need

| 2012 | **Operation Shoestring** | Jackson, Mississippi |

Organized school for poverty-stricken children

experience

| 2012–Now | **Ingress (Niantic, Inc.)** |
| | *Regional Moderator* |

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

- Created and manage the South Texas roster website
    - satxresist.com
- Improved the usability of Google's web app by JavaScript bookmarklets for thousands of users
    - 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** |
| | *Developer, Administrator, and Moderator* |

Developed a social networking platform that is home to over 2,000 users

| 2016 | **TMI Paths of Life** | TMI - The Episcopal School of Texas |

Created a 50 page whitepaper for students at my school to find the best colleges and jobs for their futures

| 2015 | **Parlevel Systems** | San Antonio, Texas |
| | *Summer Intern* |

- Worked on the development of analytical software for vending machine operators in North America
- Developed the company's foray into micromarkets
    - Generates roughly $50/day per location
    - In use at Rackspace/Geekdom
- Created web tools to allow the company itself to run more efficiently

| 2014 | **Tots N Teens Pediatric Urgent Care** | San Antonio, Texas |
| | *Logo Creator and Website Manager* |

Created the logo for a local urgent care clinic

| 2014 | **Umer936** | San Antonio, Texas |
| | *Website Builder* |

Built professional websites for businesses and clients by employing web development skills

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

Mr. Rafael Barroso
Parlevel Vending Management, Co-founder
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SACRA, Inc.
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