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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

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)
  - 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 Trump's slogan and logo, I created makesomethinggreatagain.com

2016 — Bluetooth Speaker — San Antonio, Texas

Built a Bluetooth speaker for just under $4

2016 — Waterslide — Boerne, Texas

Right after graduation, my friends and I built a 12' tall waterslide in 2 days

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

Raspberry Pi in my glove compartment for logging my car's 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 view 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 registry tweak ports over the "Open in Terminal" function

2012–2014 — ExtempEngine — San Antonio, Texas

Developed a Chrome App to automatically download and sort articles from news sources allowing easy access during an extemporaneous debate round without internet connection

extracurriculars

2016–Now **American Helicopter Society (AHS)** University of Texas at Austin
Compete in the International Aerial Robotics Competition with our fully autonomous quad-copter with computer vision guidance system

2016–Now **IEEE-Communications Society (IEEE ComSoc)** University of Texas at Austin
Spread awareness about and prevention of software and hardware vulnerabilities

2016–Now **Muslim Student Association (MSA)** University of Texas at Austin
Carry out religious, social, charitable, literary, athletic, scientific, research, and other Islamic activities

2016–Now **Women in ECE (WECE)** University of Texas at Austin
Promote diversity, volunteer, and bring together all ECE students

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

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

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

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

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

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 and database
  - 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, mystery)

references

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Worked under him during internship
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