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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

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

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 filterHardware<ul style="list-style-type: none">Built an IR blasterCreated 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 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	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 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

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	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	Women in ECE (WECE) Promote diversity, volunteer, and bring together all ECE students	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

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 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

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

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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Mr. Rafael Barroso

Parlevel Systems, CIO & Co-Founder
Worked under him during internship
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Mr. James Lewey

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