

E D U C A T I O N

UNIVERSITY OF EDINBURGH	Edinburgh, Scotland	Class of 2021
HARVARD UNIVERSITY (Extension)	Cambridge, MA	Spring 2017
Courses: Calculus, Discrete Mathematics		
CHOATE ROSEMARY HALL	Wallingford, CT	Class of 2016
ACT: 34/36		
SAT Subject Tests: Math II: 750, Physics: 760		
Advanced Placement Courses Statistics, Computer Science (Exam Score: 5)		
Johns Hopkins Center for Talented Youth	Student	2013, 2014
Courses: Robotics, Inductive/Deductive Reasoning, Cryptology, Computer Science, Electrical Engineering, Biology.		

E M P L O Y M E N T

NASA Jet Propulsion Laboratory	Intern, Software Engineering	Summer 2017
Mission formulation operations at JPL Ops Lab, section 397F (Human Interfaces Group).		
Aurora Flight Sciences	Intern, Software Engineering	Dec 2016-May 2017
Developed systems software for an upcoming DARPA-funded joint MIT and Aurora microsatellite research mission (DeMi), as well as reverse engineering and repairing upcoming Aurora internal projects (covered by NDA/ITAR). Created new intellectual property for Aurora and completed IP disclosure for patent submission. Continued development and integration into upcoming missions and contracts underway.		
NASA Jet Propulsion Laboratory (JPL)	Intern, Research Software Engineer	Summer 2016
Based out of JPL's 397-F (Ops Lab Human Interfaces Group) to develop mission formulation software to enable design of satellite propulsion systems in support of Team X and Xc's model-based systems engineering and foundry modernization initiatives. Resulting project made part of JPL's long-term strategic plan. Invited to return for internship summer 2017.		
MIT STAR Lab	Intern, Research	Summer 2015
Developed task scheduler monitor for the MiRaTA microsatellite RTOS (Salvo) and Flask/Python-based web dashboard for ground station monitoring and control. Personally presented work at MIT/US Department of Defense Lincoln Laboratory. Worked remotely with NASA's Jet Propulsion Lab (JPL) to identify existing spacecraft buses to fit proposed mission payloads by meeting user-specified constraints (cost, power, etc.). Resulted in JPL invitation for spring facility tour in preparation for summer 2016 internship.		

S K I L L S

Application Development

Web Application Development	HTML/CSS/JS, SCSS, Node.js, Python, MongoDB, Elm
Native Application Development	Python, Electron, Objective-C
Systems Programming	C/C++, PIC24 Assembly, POSIX

Cybersecurity

Reverse Engineering	Hex editing, disassembly, exploit generation
Pentesting	Metasploit, Ettercap, Wireshark

Creative

Adobe Illustrator	Poster making, print design, web design, application mockups
Adobe Photoshop	Photo enhancement/composition
Final Cut	Video production

Software

MS Office	PyCharm (Python IDE)	Vim (Text editor)
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P R O J E C T S

NASA Jet Propulsion Laboratory	Intern, Software Engineer	March 2016
Invited to spend spring break at JPL in an exploratory capacity, shadowing Team X and Xc operations.		
Hewlett Packard Code Wars	Team Captain/Organizer	March 2015
Intense coding competition for high school students.		
Stanford University	Student	Summer 2014
Explored Objective-C application design for iOS devices.		
Stanford University, She++ Diversity Summit	Speaker	April 2014
Spoke at Google, Facebook, Microsoft, and Oracle panels about gender diversity in computer science.		

P R E S E N T A T I O N S

MIT Industry Liaison Conference	March 2017
Created simulation of microsatellite constellation, presented in Vienna at Austrian Economic Chamber (WKO) and in Munich at the German aerospace agency (DLR).	
Choate Rosemary Hall	2015 - 2016
Revisit Day	Conversed with Applicants Spring 2015, April 2016 (x2)
Computer Science/Math Dept.	Summer accomplishments described to class
College Counseling Office	Presented Junior Summer Opportunities January 2016
She++	Fellow, Speaker Stanford University 2014
Addressed CPU's successful inclusiveness of members' gender/ethnic diversity and overall high achievement levels.	

E X T R A C U R R I C U L A R S

Choate Programming Club (CPU)	Founder	Hours: 480 hours	2012 - 2016
Solely responsible for computer science curriculum development, taught and ran coding workshops. Orchestrated assignments, added classes, and did strategic planning. Handled faculty interactions for equipment and materials. Applied and received \$1000.00 Google grant. Resulted in the hiring of a dedicated computer science teacher and increasing course choices from 2 to 7 per year with 200+ enrolled students/year from the previous 20.			
Math Team	Member	Hours: 40 hours	2012 - 2014
Competed in tournaments and attended weekly meetings.			

C O M M U N I T Y S E R V I C E

Hartford Capital Classics	Developer	2015 - 2016
Redesigned and maintained Shakespearean non-profit group's website to attract audiences and donors.		
St. John's Middle School	Instructor	2012 - 2016
Prepared and taught a class in robotics to 10 7 th -graders		
St. Dunstan Church	Member/Volunteer	2012 - 2016
Numerous events and fundraisers. Helped with Christmas decorations, kitchen, and running cookout.		
Choate Rosemary Hall	Boars Against Hunger	2012 - 2016
Worked with Harvest Pack to package meals for food shipments to insecure families in Haiti and the U.S.		

A W A R D S

Dean's Awards	Excel in All Subjects	Fall 2016, Winter 2016 and Spring 2016
Yearbook Superlative	Most Likely to Invent the Next Big Thing	2016
Choate Press Features	Alumni Bulletin	Feature Story Spring 2016
	Choate News	Highlighted April 2016
Advanced Computer Science	Award for Excellence	Honorable Mention 2016
	Award for Excellence	First Place 2015
She++	Fellowship Award	Stanford University April 2016
National Merit Program	Student Award	Commended 2014

L A N G U A G E S

English: Native	Polish: Conversational	Mandarin: Intermediate
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