Alexander Curtiss
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Education

University of Colorado, Boulder
BS in Computer Science
- *Anticipated May 2019*
- *GPA: 3.780*
- *Dean's List Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017*

MS in Interdisciplinary Telecommunications
- *Anticipated May 2019*
- *Taken jointly with BS in Computer Science*

Technical skills

Languages:
- Python - C - C++
- Javascript - HTML / CSS - x86 Assembly

Skills and tools:
- Linux Administration - Application Security
- Network Management - Network Security
- Language Design - Git
- Machine Learning - OpenGL

Work experience

Google, Inc.
Software Engineering Intern (May 2017 - August 2017)
- Improved test coverage of ChromeOS WiFi and identified errors in the WiFi kernel driver.

University of Colorado, Boulder
Course Assistant (August 2015 - December 2016)
- Wrote lesson plans, tutored, and taught for classes on programming and data structures in C++.

Science and Technology Corporation (STC) on contract to the National Oceanic and Atmospheric Administration (NOAA)
Web Development Assistant (August 2012 - August 2015)
- Aggregated and analyzed climate data using Java and Matlab.

Leadership and Club Positions

President of the CU Cybersecurity Club *(May 2016 - present)*
- Gave talks and organized events with up to 40 students in attendance.

Member of the CU Boulder IT Student Governance Board *(March 2016 - present)*
Member of the CU Honor Code Panel *(August 2017 - present)*

Projects

Marmalum | *Code: github.com/csci4555-f17/project-compilamum*
- A proof-of-concept compiler that abstracts network calls away from dynamic websites.

C.js | *Website: apccurtiss.github.io/cjs* | *Code: github.com/apccurtiss/cjs*
- A C interpreter / debugger aimed at teaching data structures and control flow from the browser.

YourCUInfo | *Website: yourcuinfo.com* | *Code: github.com/lalaithion/SeeYouInfo*
- A website to display information on CU courses powered by a number of web scrapers.

Awards and Achievements

HackCU 2018: 4th Place | *Code: https://github.com/aowsenek/HackCU4*
- Built an IOT pothole mapping system with a few sensors on an Intel Edison talking over MQTT.

Fall 2017 CU ITP Hackathon: 1st Place | *Code: github.com/SuyogSoti/ddos_defender*
- Made a lightweight DDOS prevention and monitoring tool at the firewall level.

Spring 2017 CU ITP Hackathon: 1st Place | *Code: github.com/lalaithion/IceGeckos*
- Implemented location-based multi-factor authentication using Cisco Meraki.

Winter 2017 CU ITP Hackathon: **2nd Place** | *Code: github.com/pieterbork/Vegan_Tornadoes*
- Wrote a web app that automatically detected and blacklisted malicious clients.

HackCU 2016: **3rd in Twitter's Free Speech contest |** *Code: github.com/Hovestar/SpreadTheWord*
- Created a chat forum that uses a Bluetooth mesh network instead of an internet connection.

HackCU 2015: 3rd Place | *Code: github.com/jkirlans5282/personalEmails*
- Made a Chrome plugin using IBM's Watson to give tailored writing tips for emails.

CU Department of Computer Science: Service Learning Award (*May 2017)*
- Awarded yearly to a student assisting with education for an extended period of time.