# Christian Scarlett

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## Education

**Massachusetts Institute of Technology**                                                      Cambridge, MA
Electrical Engineering and Computer Science (6-2) GPA: 5.0                                       July 2022
- Relevant Coursework: Embedded Systems, Algorithms, Machine Learning, Fundamentals of Programming, Circuits and Electronics, Differential Equations, Multivariable Calculus

**Northern State University**                                                                   Aberdeen, SD
Undergraduate Chinese Certificate  GPA: 4.0/4.0                                                  May 2018

## Experience

**Milwaukee Electric Tool Corporation**                                                         Brookfield, WI
Electrical Engineering Intern (One-Key)                                             January, June – August 2019
- Created groundwork firmware for a new IoT SiP using GPS and LTE for location tracking. (C++)
- Created a PC application from scratch allowing other engineers to interface with One-Key devices over BLE and serial. (Python)

**CREATE Aberdeen Makerspace**                                                                  Aberdeen, SD
Operations Intern                                                                    May 2017 – August 2018
- Designed and taught electronics, coding, and robotics classes, including three coding bootcamps.
- Organized 2 Startup Weekends, heading logistics, funding, and recruitment.
- Increased social media engagement by 120% by regularly publishing makerspace updates and office activities to social platforms.
- Increased class enrollment by 50% by expanding marketing in public schools and social media.

**Silicon Plains, LLC**                                                                         Bismarck, ND
IT Intern                                                                                       July 2016
- Provided on-site and remote software, computer, and server setup and maintenance for ~40 businesses in the Bismarck area.
- Reduced time-consuming laptop setup procedures by automating setup processes.

## Projects

**Keeping Up with the Colors**                                                         March – May 2019
- Designed electronics and software on a microcontroller platform for an interactive color-matching children's toy on a team of six.

**www.christianscarlett.com**                                                      June 2019 – Present
- Created website from scratch using HTML, CSS, and Bootstrap to learn web design skills.

**Tongue-Fu**                                                                          September 2019
- Built voice-recording interface for a kahoot-style game website at HackMIT.

**608-Bike**                                                                           September 2019
- Wrote location-tracking software on the embedded system for a path-finding social website for bikers.

## Activities and Leadership

**MIT Music Production Collaborative** Social/Publicity Chair                 Cambridge, MA; May 2019 – Present
- Plan events to foster the relationship between the club and music production community in the Boston area.

**6.009 Fundamentals of Programming** Learning Assistant                        Cambridge, MA; Feb - May 2019
- Aided others' learning of programming fundamentals including object-oriented concepts, interfaces, modularity, and efficiency.

**MIT Motorsports, FSAE** EE and Business Teams                                Cambridge, MA; Aug – Dec 2018
- Designed and reviewed PCBs for the battery management system.
- Designed new team website.

**National Honor Society** President                                             Aberdeen, SD; 2017-2018
- Created tutor program for students in need, organized bi-weekly meetings and fundraisers for charities, managing ~30 members.

**Chinese Club** Founder/President                                              Aberdeen, SD; 2017-2018
- Introduced new high school Chinese language classes; organized weekly calligraphy, paper cutting, cooking, and cultural fair trips.

## Awards and Honors

Presidential Scholar Candidate, National Merit Finalist, Intel Excellence in Computer Science Award

## Skills

Python, C/C++, HTML, CSS, Javascript, Bootstrap, SQL, internet protocols; English - fluent, Chinese – conversational