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Charlotte McGinn

Education

University of California, Los Angeles — **Winter 2020**
B.S. in Computer Science and Engineering

Languages

- C++
- C
- MIDL 3
- SQL
- Python
- Verilog
- HTML / CSS

Tools

- Git
- Bash
- Arduino
- Photoshop

Leadership

UCLA ACM   **Apr '17 – Present**
- Internal Director, Hack Officer

TEALS Computer Science Fair LA   **Apr – Jun '17**
- Panels and Workshops Organizer

Github Field Day LA   **Oct '17 – Jan '18**
- Event Organizer

Honors

- Rewriting the Code Fellow
- Grace Hopper Conference 2016 Scholarship, UCLA CS Department
- High School UCSD Gordon Fellow
- NCWIT Aspirations in Computing National Runner-Up and San Diego Winner

Experience

Amazon | Software Engineering Intern   **Sept – Dec 2018**
Alexa Personalization Team
- TBA

Microsoft | Software Engineering Intern   **Jun – Sept 2018**
Network Developer eXperience Team
- Designed and implemented 8 WinRT HttpClient API methods (~2,000 lines) with **C++** and **COM** which will enhance the HttpClient experience for Windows Developers. HttpClient APIs are used by 10,000+ apps
- Projected COM-level implementation code to C++/CX, C#, and JavaScript libraries through IDL (**MIDL 3**)
- Tested the functionality of these new API methods (~1,000 lines) with automated TAEF-based test code at the ABI level (in **C++**) and Projection level (in **C#**)

Microsoft | Explorer Intern   **Jun – Sept 2017**
Membership, Knowledge, and Growth Team
- Fetched big data with an **SQL** and **C#** based internal scripting language and analyzed data model alignment
- Implemented a client-side interface to render data in graphs

Nordson ASYMTEK | Marketing Intern   **Jun – Sept 2016**
Global Marketing Communications Team
- Wrote and populated content onto a high-priority internal web tool for the sales team to professionally engage customers
- Managed Salesforce data to organize the customer reports to make the dashboards more effective

Projects

DevX Pointers   **Apr – Sept 2017**
- Developed frontend using **HTML**, **CSS**, **Javascript**, and **Embedded Ruby**
- Won the Code for the Mission "Diversity in Education" track award, with a $5000 cash prize

Keyboard HEERO   **Nov – Dec 2016**
- Wrote an algorithm in **Arduino C** to take note packages and illuminate the corresponding active notes down some LED strips
- Implemented the ability to have the correct note pitch play aloud at the same time that the associated note is played on the keyboard

Air Mouse   **Oct – Dec 2016**
- Built a wireless air mouse with two microcontrollers and radio modules which communicated over the I2C protocol
- Developed code in **Arduino C** to transmit data packages with mouse position for cursor movement, button clicks, and battery voltage levels