

Brian McCabe

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EDUCATION

University of Notre Dame

Notre Dame, IN

BS in Computer Engineering

May 2021

GPA: 3.58 / 4.00

Relevant Classes: Systems Programming, Operating Systems, Data Structures, Computer Architecture, Machine Learning, Logic Design, Networks and Internet Systems, Databases and Info Systems, Programming Paradigms, Embedded Design, Electric Circuits, Electronics, Signals & Systems, Capstone Design.

EXPERIENCE

Capgemini

New York, NY (Virtual)

Data Engineer

July 2021 - Present

- Developed a Master Data Management implementation using Ataccama One's MDM and Data Quality software
- Integrated multiple client source systems into a new data model, carried out source to target transformations, and effectively cleansed, matched, and merged user data
- Consulted with both client and software product team to develop an MDM solution

Alarm.com

Tysons Corner, VA (Virtual)

Device Engineer Intern

Summer 2020

- Developed a proof-of-concept solution for generalized integration between proprietary Alarm.com software and alarm panel partner firmware
- Learned the and contributed to the C++ panel codebase with new version of panel software
- Presented solution to the Linux team and managers of the device engineering team

Computer Engineering Capstone

Notre Dame, IN

Embedded C++ Programmer

Spring 2021

- Created a self-solving 3-D printed Rubik's Cube. Developed the C++ software to read input motor movements, produce solving algorithm, and output

Systems Programming

Notre Dame, IN

C Socket Programmer

Spring 2019

- Created a HTTP server using C system calls and a python http client to test server performance

Logic Design

Notre Dame, IN

FPGA Programmer

Fall 2019

- Developed a four-tone polyphonic synthesizer in hardware using Verilog HDL, an Altera FPGA board, and keyboard I/O

TECHNICAL TOOLS AND SKILLS

C++, C, Java, Python, Bash, HTML, CSS, MATLAB, Unix/Linux, Git, GitHub, SVN, TortoiseSVN, Verilog, ARM Assembly Language, Simulink, AutoCAD, SolidWorks, Maya, Arduino, Ataccama