**Nicolas Mitchell**

University of Louisville | JB Speed School of Engineering

**Permanent:** 10704 Sunderland Road, Louisville, KY 40243

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**EDUCATION** **Bachelor of Science in Computer Engineering/Computer Science** Expected May 2020

**Master of Engineering in Computer Engineering/Computer Science** Expected May 2021

J.B. Speed School of Engineering, University of Louisville, Louisville, Kentucky **GPA 3.412/4.0**

Hours Completed: 110

**LANGUAGES/TECHNOLOGIES**

* **Languages: C, C++, Java, Python, Golang**
* Web Design with HTML, CSS and Javascript
* Assembly and embedded systems programming using microcontrollers
* 3D modeling in Blender and Solidworks
* Graphic Design and 2D Animation Experience
* Experience with RESTful APIs
* Containerization with Docker
* GNU/Linux environment, including GCC, Bash, and Ubuntu
* SQL and NoSQL databases including MongoDB, PostgreSQL, Cassandra, and Aerospike

**APPLIED EXPERIENCE** **Hardware:** Designed and assembleda gaming computer from scratch, used an Arduino

to interact with electrical systems such as an LED screen and vehicle ECU, designed and built a self-orienting solar panel using an ATMega328P Microcontroller and stepper motor

**Go:** Worked on a backend application and RESTful API that processed HTTP requests to schedule AWS tasks and interact with databases, built a computer vision parking spot detector for a hackathon using darknet

**C/C++:** Used for Data Structures assignments, Embedded systems projects, Arduino programming, and Operating Systems class projects

**Python:** Used in conjunction with TensorFlow to create image recognition software as part of a hackathon, as well as to automate simple tasks and run maintenance scripts

**WORK EXPERIENCE** **Software Developer Intern** January 2018-April 2018

*El Toro* Louisville, KY

* Wrote automated unit and integration tests for database software in Go
* Wrote software in Go to interact with various databases including MongoDB, Aerospike, and PostgreSQL
* Wrote an outward-facing RESTful API with Golang to handle and process requests using Amazon Web Services
* Used Docker containers to control and automate tests

**Student Tutor** August 2017-December 2017

*Resources for Academic Achievement (REACH) Computer Resource Center* Louisville,KY

* + - * Helped students and staff with IT issues
      * Tutored for Computer Information Systems and Computer Engineering classes
      * Helped students solve problems with Microsoft applications, Python, C, C++, C#, and Java

**Desk Staff** May 2017 – October 2017

*University of Louisville Campus Housing* Louisville, KY

**ACTIVITIES/HONORS** **Electronics Team Member,** *Formula SAE* January 2018-Present

* Designed LED screen to show vehicle RPMs using an Arduino
* Wrote code to control gear shifting and tracking of speed and RPM from the ECU

**Hackathons:** FirstBuild Hack the Home 2017, VandyHacks 2017, DerbyHacks 2018

**VP of Finance and Loss Prevention**, *Delta Upsilon Fraternity* January 2018-Present

* Prepared the budget, tracked expenses, and handled collection of dues
* Ensured the chapter suite was kept clean and rules were followed during social events

**VP of Associate Member Education**, *Delta Upsilon Fraternity* April 2017-November 2017