**Nicolas Mitchell**

University of Louisville | JB Speed School of Engineering

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

J.B. Speed School of Engineering, University of Louisville, Louisville, Kentucky **GPA 3.341/4.0**

Hours Completed: 135

**LANGUAGES/TECHNOLOGIES**

* **Languages: C, C++, Java, Python, Golang**
* Assembly and embedded systems programming
* RESTful APIs
* Containerization/Docker
* GNU/Linux environment
* SQL and NoSQL databases

**APPLIED EXPERIENCE** **Hardware:** Used an Arduino to interact with electrical systems such as an LED screen and vehicle ECU, designed a self-orienting solar panel using an ATMega328P Microcontroller

**Go:** Built a computer vision parking spot detector for a hackathon using YOLO image recognition.

**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** **Backend Software Developer Intern** June 2019-August 2019

*Red Ventures* Fort Mill, SC

* Developed backend microservices in Golang for an internal data pipeline software
* Developed integration with third party service providers like Segment
* Built web UI components using ReactJS
* Wrote MySQL database migrations to facilitate software functionality

**Visiting Research Assistant** January 2019-May 2019

*University of Southern California Information Sciences Institute* Waltham, MA

* Researched and developed a system component for a DARPA funded project to automatically detect and respond to phishing emails
* Worked with a team to develop new features and fix bugs for a Natural Language Processing library written in Python

**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-Present

*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

**CERTIFICATIONS AWS Certified Solutions Architect – Associate** July 2019- July 2022