**Michael Lawrence**

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https://github.com/prilak

**EDUCATION**

**Bachelor of Science, Computer Engineering May 2019**

The University of Texas at Austin

Cumulative GPA: 3.91/4.00

Primary Technical Core: Software Engineering

Secondary Technical Core: Computer Architecture and Embedded Systems

**Related Courses**

Software Design and Implementation I (C, C++, Data Structures), Software Design and Implementation II (Java), Digital Logic Design (VHDL), Linear Systems and Signals(MATLAB), Introduction to Embedded Systems (C, Assembly)

**WORK EXPERIENCE**

**Research Assistant, Dr. Mohit Tiwari** June 2016 - August 2016

* Created Flask web applications in Python for managing Linux containers with MySQL
* Tested effects of covert channels by checking CPU usage with C
* Used Python to manage threading for several programs
* Reviewed graduate research papers for accuracy

**Certified Technician, LensCrafters** August 2015 - present

* Prevented delays by performing weekly maintenance on machines
* Achieved target deadlines and contacted retail on status of production
* Tracked lab performance statistics at the end of each day

**PROJECTS**

**Cookbook Web Application** August 2017 – September 2017

* Developed a web application that provides suggestions based off dietary and financial factors
* Wrote backend in Node.js using the Express framework
* Designed templates using the Bootstrap framework and EJS
* Managed multiple database entries with MongoDB using Mongoose

**Jump Block** June 2017 – July 2017

* Developed a JavaScript game with a player can compete against endless waves of enemies
* Used P5.js to create randomly generated maps and characters
* Designed backend with Node.js to manage JSON data for the game

**Embedded Systems Project** March 2016 - May 2016

* Constructed a handheld Mario-like game using a TM4C microcontroller
* Wrote game physics and motion in C and integrated controls with Assembly
* Solved collision issues by converting jpg images to two dimensional arrays
* Implemented sound functionality with a 12-bit ADC

**SKILLS**

**Languages**: Java, C, C++, JavaScript, Node.js, Python, Git, HTML, CSS, SQL, VHDL, Assembly

**Frameworks and Technologies**: MongoDB, Express, P5.js, MySQL, Flask, MATLAB

**Environments and IDEs**: Linux (Ubuntu), Cloud 9, LabVIEW, Keil, Vivado

**ACCOMPLISHMENTS**

University Honors December 2015 - May 2017