

# Michael Lawrence

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<https://github.com/prilak>

## Education

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### 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

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### 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
- 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

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### 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 meal 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 interact with the game using JSON

### 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

## Skills

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Languages: C, C++, JavaScript, Node.js, Python, Java, 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

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University Honors

December 2015 - May 2017