

# Fabian Fuxa

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608 Catherine St., Ann Arbor, MI 48104

## EDUCATION

### University of Michigan

Bachelor of Science in Computer Science Engineering, Minor in Business

GPA: 3.6/4.0

**Relevant Courses:** EECS 591: Distributed Systems (Graduate Level), EECS 495: Accessible Software Systems Design, EECS 482: Operating Systems, EECS 485: Web Databases & Information Systems, EECS 388: Computer Security

**Ann Arbor, MI**

*April 2019*

## COMPUTER SKILLS

**Programming Languages:** C/C++, Python, JavaScript, Java, Objective-C/Swift, SQL, HTML5, CSS, R

**Frameworks/Technologies:** React/React Native, AngularJS, Django, Docker, Cordova, Gradle, Webpack, Node

**Environments:** Windows, OSX & Linux

## INTERNSHIP EXPERIENCE

### JPMorgan Chase & Co.

*TAP Software Engineering Intern*

**Chicago, IL**

*June 2018 – August 2018*

- Implemented biometric authentication on mobile app dealing with financial transactions
- Taught team of interns React framework and helped full times with building/deploying beta version
- Developed image recognition/OCR software using machine learning libraries as side project within company

### Treetown Tech LLC

*Full Stack Development Intern*

**Ann Arbor, MI**

*May 2017 – August 2017*

- Initiated development on web and mobile app for IOT based product that automates and facilitates the process of carbonating and serving beverages.
- Developed frontend portion of app from scratch using React/React Native, allowing cross platform use.
- Drafted Django-based REST API architecture and database schema to efficiently store and retrieve user data using OAuth2 authentication methods.

## WORK EXPERIENCE

### College of Engineering – Autograder Development Team

*Full Stack Programmer*

**Ann Arbor, MI**

*May 2017 – Present*

- Develop the College of Engineering's multi-course autograder, a web application to which students upload code that is automatically checked for correctness.
- Lead handgrading interface team, tasked with providing graders an intuitive platform for style-grading student code, mimicking Google docs functionality.
- Tasked with full-stack responsibilities, developing front-end interface and backend REST API.

### ENGR 101 – Introduction to Computers and Programming

*Instructional Assistant & Autograder Lead*

**Ann Arbor, MI**

*January 2017 – Present*

- Teach students basic programming concepts in C++ and MATLAB, and help them debug code in office hours.
- Configure course autograder and facilitate communication between staff and autograder development team.

## PROJECT EXPERIENCE

### Robotics Programming and Optimization Lab

*Study Abroad*

**Berlin, Germany**

*May 2016 – June 2016*

- Developed a fastest line following algorithm for the M3pi robot using a PD controller with Nelder Mead optimization methods.
- Created robot simulation using MATLAB for efficient testing of performance-affecting parameters.
- Developed robot Bluetooth control from computer using Python with pySerial and Pygame modules.

## OTHER SKILLS & ACTIVITIES

**Languages:** Native proficiency in Spanish & Portuguese; entry-level German

**Activities:** "Groove High Energy Percussion" and "Michigan Electronic Dance Music Association" (MEDMA)