

Fabian Fuxa

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science Engineering, Minor in Business
GPA: 3.55/4.00

Ann Arbor, MI

April 2019

COMPUTER SKILLS

Programming Languages: C/C++, Python, JavaScript/TypeScript, Objective-C/Swift, HTML, CSS, R

Frameworks/Libraries: React, React Native, Angular2, Django, Docker, Bootstrap

Environments: Windows, OSX & Linux

Relevant Courses: EECS 281: Data Structures and Algorithms, EECS 485: Web Databases & Information Systems, EECS 388: Intro to Computer Security

WORK EXPERIENCE

Treetown Tech LLC

Full Stack Development Intern

Ann Arbor, MI

May 2017 – August 2017

- Initiated development of web and mobile app for IOT based product that automates and facilitates the process of carbonating and serving beverages.
- Developed front-end design using React and React Native to allow cross platform compatibility.
- Drafted Django-based REST API architecture and database schema to efficiently store and retrieve user data using OAuth2 authentication methods.

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.

Michigan Research Community (MRC)

Peer Research Advisor

Ann Arbor, MI

September 2016 – May 2017

- Conducted monthly seminars with 14 first-year students and a guest speaker about sustainable research to introduce incoming students to research methodology/practices, potential career paths and faculty members.
- Assisted members in acquiring research projects and handled associated difficulties.
- Reviewed resumes and provided interview tips to help first-years with their research position search.

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)