

Michael Yufa-Zimilevich

myufa@umich.edu · (810) 282-5109 · <https://github.com/myufa>

EDUCATION

University of Michigan, Ann Arbor, MI

Major: Bachelor of Science in Engineering in Computer Science

April 2021

Coursework: Discrete Mathematics, Data Structures and Algorithms, Foundations of Computer Science, Intro to Machine Learning, Databases, Web Systems, Applied AI for Human Behavior

SKILLS

JavaScript, Node, TypeScript, React, Angular, Python, Flask, C++, SQL, Docker, CircleCI, Machine Learning, AWS

WORK/PROJECT EXPERIENCE

Software Engineer Intern

Dexter Learning – Remote

October 2020 – Current

- Launched a data science service with FastAPI, Scikit, and Docker, generating insights on students' academic performance
- Fully piloted our CI/CD pipeline with CircleCI, drastically increasing deployment rates and reducing failed builds
- Built role-based authentication infrastructure with custom middleware for verifying token authenticity and permissions
- Led the team in formalizing the documentation and task creation process, implementing a kanban ticketing system

Software Engineer Intern

Pearl.io – Remote

July 2020 – January 2021

- Designed a server-side paginated API for Twilio message aggregation with Elasticsearch, reducing load times by 90%
- Implemented Jest unit testing for backend Node services which lead to far less faulty deployments and faster iterations
- Deployed AI chatbot for our automated messaging service, removing the need for our clients to answer yes/no questions

Software Engineer Intern

PreDxion Bio (YC S17) – Ann Arbor, MI

May – September 2019

- Implemented signal processing models on microscope images to determine optimal conditions for lens focus
- Doubled precision of computer vision software for immunoassay using OpenCV tools for image energy
- Established cloud storage and data sharing infrastructure to maintain end-to-end encryption and compliance with GDPR
- Sourced and managed the contract engineering engagements for the system integration of our next generation product

Researcher in Wearable IoT Devices

Undergraduate Research Opportunity Program – Ann Arbor, MI

October 2018 – May 2020

- Created a data pipeline that connects Bluetooth IoT devices using the Blynk mobile platform as a gateway
- Designed PCB of a wearable necklace for emotional expression between peers using Arduino and Bluetooth microchips
- Prototyped a responsive digital 'smart coin' for addiction management using an Arduino real-time-clock

LEADERSHIP

Co-Founder

Michigan Eco Data Club

September 2019 - Current

- Oversaw and developed project to make heatmaps from millions of data points on toxic waste in Michigan's Waters
- Manage full stack data-science to web app projects using flask, heroku, and jupyter with a team of 20 students
- Run weekly workshops backend web development, python data science, and machine learning frameworks

VP External

UpRound Venture Capital – Ann Arbor, MI

December 2018 - December 2019

- Coordinated four speaker events with top venture capital firms from around the country, each with 80+ attendees
- Sourced more than 40 Midwest startups and passed on 8 thoroughly vetted ventures with detailed investment memos
- Secured 20 new partnerships with venture capital firms using cold outreach and demonstrating UpRound's value