Michael Yufa-Zimilevich

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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

C++, C | JavaScript, Node, TypeScript, React, Angular, MongoDB | Python, Flask, Pytorch | AWS Lambda, API Gateway, Amplify

WORK/PROJECT EXPERIENCE

Full-Stack Software Engineering Intern

Pearl.io – Remote   *July 2020 – Current*

• Designed a server-side paginated API for Twilio message aggregation service built on Mongodb, reducing load times by 90%

• Implemented Jest JS testing framework for backend Node services which lead to far less faulty deployments and faster iterations

• Built custom services and data sources for Angular mat-table to render a message inbox with server-side pagination and filtering

Software Engineering 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 – Current*

• 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

Medical Engineering Intern

Emerson Electric – Novi, MI   *June - August 2017*

• Implemented a TCP data collection and controls system across a network of valve performance sensors using the Mosquitto SDK

• Reduced costs of performance monitoring by over $5,000 per year and saved hours of manual interference per week

• Conducted market research on microfluidic valves in laboratory automation and designed plan for market entry

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 on topics from backend web development to 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