

# Jayant Mehta

Systems Design Engineering, University of Waterloo (2<sup>nd</sup> Year)

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## SKILLS

**Languages:** C++, Java, Python, JavaScript, SQL, HTML, CSS, MATLAB, Ruby

**Tools/Tech:** Node.js, React.js, Flask, Git, Jira, Google Cloud, Azure, AWS, Linux, Ruby on Rails, PostgreSQL, MongoDB

**About Me:** Self-motivated, Team Player, Adaptable, Curious, Quick Learner, Analytical Thinker, Public Speaker

## EDUCATION

**University of Waterloo** | (BSc.) Systems Design Engineering – 3.9 GPA

Sep 2019 – Apr 2024

Courses: Top 25% in class, C++ Data Structures and Algorithms (93%), C++ Digital Computation, Human Factors in Design

Leadership: Microsoft Learn Student Ambassador, Engineering Ambassador, Hack the North Volunteer, SHAD Fellow

## EXPERIENCE

**Oracle** | Software Developer and SDET Intern

Kitchener, ON | Sep 2020 – Present

- Developed **SQL** migrates for tax engine changes in the United States impacting over **40,000** global organizations
- Configured the backend database to implement new client jurisdictions increasing user coverage for the payroll product
- Implemented Java functions to generate automated Microsoft SQL Server migrates reducing development time by **60%**

**Canada Revenue Agency** | IT Full Stack Developer

Ottawa, ON | Jan – Apr 2020

- Developed auditor case investigation features in **Java** released to over **15,000** users across Canada via **Agile/Scrum**
- Built a microservice vertical slice to retrieve user roles and authorizations, reducing search times by 40% for admins
- Optimized e-docs data uploading to the backend IBM FileNet server by **70%**, improving upload times from 10s to < 3s
- Implemented sorting of 20+ tree node types, wrote JUnit tests, and utilized Git to track work

**Design Net Specific** | Web Developer

Mississauga, ON | Jul – Aug 2019

- Constructed a Vue.js landing page to display business services and features using JavaScript, HTML, and CSS
- Refactored code and designed reusable components to accelerate development process by over **50%**
- Implemented routing and rendered a contact form to increase client interactions and contacts by **30%**

**Microsoft** | Learn Student Ambassador

Kitchener, ON | Apr 2020 – Present

- Led an Azure AI chatbot tutorial to deploy a Facebook Messenger bot generating revenue for **thousands** of businesses
- Built a learning centre tutorials platform using Ruby on Rails, React.js, and PostgreSQL database deployed to Heroku

## PROJECTS

**Eyecam Voice Assistant** 🔗

Python, OpenCV

- Built an OpenCV computer vision eye camera voice assistant in Python to assist visually impaired patients
- Implemented Yolo algorithm object detection in a live video feed outputting activity via natural language processing

**Facebook Ads Group Predictor** (Facebook AI Hackathon) 🔗

Python, PyTorch, Flask, React.js

- Developed a Google Vision image processing text classifier to predict ad matches to Facebook groups at **93%** accuracy
- Created a Flask and React.js UI to make PyTorch inferences from trained machine learning neural networks in Python

**Healthline Sentiment Analyzer** 🔗

Node.js, Express.js, React.js, MongoDB, Python

- Designed a custom API in Python using Azure DevOps and CI/CD to decipher user psychological sentiment in blogging
- Deployed a full stack blog to AWS using Node.js, Express.js, React.js, MongoDB, and Google Firebase Authentication

**Biometrics Bicycle Lock** 🔗

C++, Arduino

- Programmed an embedded biometrics bicycle security alarm with C++, Arduino, and fingerprint sensor

## ACHIVEMENTS

**Schulich Leader National Scholarship** | University of Toronto Engineering Science 🔗

Apr 2019

99.6% Average | Awarded the prestigious \$100,000 Engineering scholarship given to only **25** students in < **top 1%** of Canada