Jayant Mehta

Systems Design Engineering, University of Waterloo (2nd 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 | (BASc.) 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 NetSuite products
- 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 tool 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
- Investigated and debugged **15+** Jira bugs, wrote JUnit tests, and solved issues such as sorting 20+ tree node types

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, tracked work using Git, and rendered a contact form to increase client interactions 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 (Provincial Winner in DECA Innovation) 🔗   *C++, Arduino*

- Programmed an embedded **C++** biometrics security system using an Arduino and fingerprint sensor to win in 60+ teams

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%** in Canada