

# JATIN MEHTA

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## EDUCATION

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### University of Waterloo

Sept 2021 – April 2026 (Expected)

Bachelor of Computer Science (Co-op) - **Cumulative Average - 90.8%**

Waterloo, Canada

Coursework: Object Oriented Programming, Operating System, Distributed Systems, Algorithms, Cryptography

## WORK EXPERIENCE

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### Geotab

September 2023 – April 2024

Software Developer Co-op (Data Platform Team)

Toronto, ON

- Developed and deployed a **REST API** using **Java, Docker, Kubernetes and Google Cloud** to measure the performance of "Snap-to-Road" algorithms that fulfilled **1 billion+ requests** a day.
- Enhanced uptime monitoring by emulating end user behavior using **Puppeteer** and **Google Cloud**.
- Improved reliability of a **React + TypeScript** app by enhancing test coverage to over **80%** using **Jest**.

### Cradle Technologies

May – August 2022, January - April 2023

Software Engineer Co-op (Full Stack)

Toronto, ON

- Built a **Node.js** authentication microservice, leveraging cryptography concepts to securely store and interact with private keys of over **14,000 accounts**, saving **\$50,000+** every year.
- Worked extensively on the core **Flask** server and **MongoDB** database which were used in demos to raise **\$4M**.
- Scaled core backend service to serve **10,000+** concurrent users using **Gunicorn** and **RabbitMQ**.
- Wrote **40+** unit tests with **PyTest** and deployed through **GitHub Actions**, reducing downtime by **20%**.

### Royal Bank of Canada (RBC)

July 2021 – August 2021

Software Development Intern

Remote (Toronto, ON)

- Recognized as the **top tech contributor** in the intern program for developing a tool to streamline conducting Agile retrospectives for **10+ development teams** using **React, TypeScript and SQL**.

### Zappos Family of Companies

July 2020 – August 2020

Machine Learning (ML) Intern

Remote (Las Vegas, NV)

- Developed a pipeline using **Python, Blender and AWS EC2** to generate 3D models from images used for Augmented Reality (AR) features which were released to **over 1 million users** in beta.
- Generated synthetic datasets in **Unity** using **C#** to train image semantic segmentation models and to prototype foot tracking deep learning models using **Convolutional Neural Nets (CNNs)** in **PyTorch**.

## TECHNICAL SKILLS

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**Languages:** Python, C, C++, C#, Java, JavaScript / TypeScript, SQL, GraphQL, Rust, HTML, CSS

**Technologies:** React, Node.js, MongoDB, PostgreSQL, Spring, Docker, Kubernetes, Flask, Jest

**Tools:** Git, Linux, AWS (S3, EC2), Google Cloud (GKE), Android Studio, Unity, Jenkins

## OTHER

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### University of Waterloo

August 2024 – Present

Undergraduate Research Assistant

Waterloo, ON

- Worked with Prof. [Xiao Hu](#) in the **Data Systems Group** to implement state-of-the-art (SOTA) sparse matrix multiplication for database query processing and output size estimation (join and project) using **C++**.

### MIT-PITT-RW Autonomous Racing Team

April 2022 – September 2024

Software Developer (Simulation and Infrastructure Team)

Toronto, ON

- Improved developer tools used to run simulations using **ROS2, Docker, Linux, C++ and Python**.
- Traveled to Italy for Dallara AV21 race car track testing at **Monza** (F1 track) and contributed to ICRA paper.