

# Meet Mehta

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## Technical Skills

**Programming Languages:** Java, Python, JavaScript, HTML, CSS, SQL

**Frameworks:** Spring, Bootstrap, jQuery, Node.js, Django

**Database Systems and tools:** MySQL, DBVisualizer, PostgreSQL, GitHub, Selenium, PitTest, EasyMock, Docker.

## Projects

### Rate My Course

Django, Python, JavaScript, HTML, CSS, Google OAuth2 API, GitHub, PostgreSQL

- A responsive web application for students to rate and review over 10,000 uOttawa courses.
- Leveraging PostgreSQL to maintain and update 2 tables, courses, and ratings for efficient data management.
- Integrated Google OAuth2 API for secure user authentication and a responsive user interface using HTML, CSS, and JavaScript, for an intuitive user interface.

### Hotel Management Web Application

Jakarta Servlet API, PostgreSQL, Apache Tomcat, HTML, CSS, Java, Bootstrap

- A hotel management application handling 5 Hotel Chains, each consisting of 10-100 Hotels, with 3-25 Employees and 10-100 Rooms per Hotel.
- Integrating a clean and simple UI built using Bootstrap, with Jakarta Servlet API 6.0 for server-side processing.
- Hosted the application on Apache Tomcat 10.1.7 server and connected the database using PostgreSQL.

### Multi-server Queuing System Simulation

- A Java-based simulation program to showcase 100 real customers at a Subway sandwich shop.
- Using the 100 real-time data points to identify bottlenecks and propose 3 enhanced service delivery alternatives.
- Modeled 3 scenarios in Java, including parallel servers reducing wait time by 50%, adaptive server allocation reducing average service time by 50%, and strategic server repositioning increasing the efficiency of the servers by 80%.

### Course Booking Android Application

- Android course booking application for universities with 3 user authentication profiles, Admin, Student and Teacher.
- Utilized MySQL for efficient database management. Executing all 4 CRUD operations to manage the database effectively.
- Implementing concepts such as encapsulation, inheritance, and polymorphism to create modular and maintainable code.

### Simple Chat Application

- Using the OCSF framework, and object-oriented programming, engineered a 2-way client-server messaging interface.

### Image Processing using RANSAC

JAVA, GO, Prolog, Scheme, Image Processing

- Implemented RANSAC, a 3D image processing algorithm to read and process coordinates to find the dominant planes.

### PowerBI - [Productive Output Dashboard](#), [Cost Dashboard](#)

- Engaging dashboard to visualize data like productivity and ranking of 227 participating countries in the Olympics.
- Intuitive cost breakdown and statistical comparison between 31 countries for summer and winter Olympics.

### Personal Website

- A clean and simple portfolio website built from scratch using HTML, CSS, and JavaScript.

## Experience

### Systems Developer - Mechanical, BVGlazing Systems Inc. (Nov 2018 - Present)

Vaughan, Ontario

- Developed fully functional 3D models of products using VB.Net to create interactive and visually compelling simulations.
- Performing thermal analysis using ANSYS/ THERM of the system to assess heat losses as per the NFRC standard.
- Designed, engineered, and tested window systems to meet NAFS standards.

## Education

### University of Ottawa

Sept 2021 - Dec 2023 (expected)

Honors Bachelor of Science, Computer Science - GPA: 8.35

**Relevant Courses:** Data Structures, Algorithms, Data Visualization, Data Communication, Networking, Design and Analysis of Algorithms, Software Eng, Software Quality Assurance, Image Processing and Analysis, Intro to Artificial Intelligence

### Sheridan College

Sept 2016 - Sept 2018

Diploma in Mechanical Engineering - Designing and Drafting - CGPA: 8.4

## Awards

University of Ottawa: Dean's Honors List (All Semesters 80+ average) and Scholarship worth \$1000 every semester