

Meet Mehta

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mehtameet12.github.io/PersonalWebsite

EDUCATION

- University Of Ottawa - Honors Bachelor of Science in Computer Science** Ottawa, ON
 - Dean's Honors List, Scholarship worth \$1000 for 80+ in all semesters — GPA: 8.37/10 Sept. 2021 - Dec. 2023
 - Relevant Courses: Data Structures and Algorithms, Design and Analysis of Algorithms, Comp Architecture (A-) Database (A+), Analysis and Design of User Interfaces (A+), Software Engineering (A+), Intro to AI, OOP(A-)
- Sheridan College - Mechanical Engineering Designing and Drafting** Brampton, ON
 - Scholarship worth \$1000 for 80+ in all semesters — GPA: 8.4/10 Sept. 2016 - Sept. 2018

EXPERIENCE

- BVGlazing Systems** Nov 2018 - Current
 - System Designer - Mechanical Vaughan, ON
 - Engineered over 15 interactive 3D models using VB.Net, resulting in engaging user simulations
 - Conducted thermal analysis with ANSYS, in compliance with NFRC, reducing heat loss by 20%
 - Orchestrated the complete product lifecycle, including initial design, engineering, and rigorous testing of 5+ NAFS-compliant window systems, ensuring high-quality, code-compliant solutions
- Drafting (Co-Op):** Collaborated on team to create plans, elevations, and details for innovative building facades.
- Full-Time Employee and Student:** Balanced full-time employment with full-time studies, graduating 2 years early.

PROJECTS

- Rate My Course**
 - Developed a responsive web application, "Rate My Course," for students using Django, Python, JavaScript, HTML, CSS, Google OAuth2 API, and GitHub, enabling students to rate and review over 10,000 uOttawa courses.
 - Implemented a dynamic search feature using JavaScript, allowing users to efficiently find and access course information, resulting in a 25% decrease in search time and enhancing the overall user experience.
 - Ensured secure user authentication and provided a user-friendly interface by integrating Google OAuth2 API, offering users a reliable login mechanism and an intuitive interface.
 - Improved data efficiency by leveraging PostgreSQL, managing and updating two essential tables, courses, and ratings, resulting in a 15% reduction in data retrieval time, improving system performance.
- Hotel Management Web Application**
 - Led a team of 3 to create a hotel management application handling 5 Hotel Chains, each consisting of 10 - 100 Hotels, with 3-25 Employees and 10 - 100 Rooms per Hotel.
 - Devised a user-friendly 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**
 - Java-based simulation program for a Subway sandwich shop, utilizing real-time data from 100 customers.
 - Using the 100 real-time data points, identified bottlenecks and propose 3 enhanced service delivery alternatives, 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**
 - Application for universities with three user authentication profiles (Admin, Student, and Teacher).
 - Efficiently managed database using MySQL while incorporating all CRUD operations for database management.
 - Used OOP concepts, including encapsulation, inheritance, and polymorphism to generate a modular code.
- Image Processing - RANSAC**
 - Developed a 3D image processing algorithm using Java, Prolog, Go, and Scheme to detect dominant image planes.

TECHNICAL SKILLS

- Object Oriented Programming (OOP):** Java, Python
- Client-Side Web Development:** HTML, CSS, Javascript, SQL
- Frameworks and Libraries:** React, Bootstrap, Django
- Database Systems:** MySQL, PostgreSQL
- Tools:** Git, Docker, Google OAuth2 API, Android Studio, Excel, PowerBI, Jakarta Servlet API, Apache Tomcat