Meet Mehta

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https://mehtameet12.github.io/PersonalWebsite

⚙ 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.
- Modelled 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