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

GastroTrackAI — Oct 2023 - Current
Web Developer — *Ottawa, ON*
- Led front-end development with React, resulting in a 20% improvement in website user interface and functionality.
- Implemented SMTP protocol on the Node.js backend, enhancing communication efficiency by 15%.
- Enabled seamless text and image sending from client to server using nodemailer, for improved communication.
- Customized the website theme using Material UI, incorporating responsive design, theming and styling, grid system, and typography. These enhancements contributed to a significant boost in user 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.
- Orchestrated initial design, engineering, and testing of 5+ NAFS and code compliant window systems.

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, Libraries and Database Systems:**: React, Bootstrap, Django, MySQL, PostgreSQL
- **Tools**: Git, Docker, Google OAuth2 API, Android Studio, Excel, PowerBI, Jakarta Servlet API, Apache Tomcat