JENNIFER LAY

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SUMMARY OF QUALIFICATIONS

- Proficient in software development using **Python, Java and JavaScript**, with 2 years of experience in project development.
- Adept in **SQL, Oracle,** and **MongoDB**, applying normalization, optimizing queries, and leveraging visualization tools for insights.
- Skilled in frontend development with expertise in **React.js, HTML,** and **CSS** layout models for creating responsive user interfaces.
- Accomplished in backend development with **Spring Boot** and **Flask** for building scalable REST APIs and server side applications.
- Strong **team** player with proven ability to collaborate effectively with cross-functional teams in project management, automotive and various other industries to drive project success.

EDUCATION

Bachelor of Engineering (B.Eng): *Computer Engineering*   *September 2022 - Present*
Toronto Metropolitan University
- **Relevant Coursework:** Database Systems, Digital Systems Designs, Software Systems, and Algorithms and Data Structures

WORK EXPERIENCE

FACULTY OF ENGINEERING AND ARCHITECTURAL SCIENCE   Toronto, Ontario
Project Manager   *September 2024 - Present*
- Supervise 90 first-year engineering students, managing assignments and facilitating communication through emails and effective weekly meetings, resulting in improved student engagement and a 20% improvement in project performance.
- Graded assignments and supported students in engineering principles and **MATLAB** through **Zoom** meetings, enhancing problem-solving skills while organizing resources for timely feedback and meeting commitments.

NEWROADS HONDA   Newmarket, Ontario
Administrative Receptionist   *June 2024 - Present*
- Leverage software tools such as **One-Eighty, CDK** and **MS Office (Excel)** to manage customer and vehicle information databases, ensuring accuracy and enhancing data visualization for insights and process optimization.
- Process 50 customer inquiries daily and manage financial transactions as a team member, using manufacturing system knowledge to stock vehicles and assist with licensing trade dockets, ensuring timely service and customer satisfaction.

ANDY'S HOME RENOVATION   Newmarket, Ontario
Project Planning Specialist   *May 2021 - May 2024*
- Created customer-centric renovation designs, balancing specifications and budget constraints ensuring client satisfaction.
- Automated meeting scheduling and financial management for over 40 clients using **Python** and the **Excel API**.
- Coordinated with suppliers and managed inventory to ensure timely availability of materials, optimizing resource allocation and supporting seamless project execution.

PROJECTS

SKINMATCH - Full-Stack Web Application | *React, Flask, Python, JavaScript, CSS* | skinmatch.onrender.com   *August 2024*
- Developed a full-stack skincare web application that intelligently recommends products based on user preferences.
- Engineered a backend API using **Python** and **Flask** to handle server-side functionality, including quiz data analysis, numerical analysis of user inputs, and product sorting for tailored recommendations.
- Designed a responsive frontend using **React.js**, focusing on accessibility for both mobile and desktop users by developing custom reusable components, enhancing both user experience and maintainability.

LEETBOT - Online Multiplayer Game | *React, Flask, JavaScript, Socket.io, CSS* | leetcodebot-gumy.onrender.com   *August 2024*
- Created an online multiplayer PvP game during a hackathon using **LeetCode** stats and **Mistral AI** for player profiles.
- Built a Python Flask backend to maintain **WebSocket** connections with **Socket.io**, for live interactions and updates.
- Developed a live auto-updating frontend with **React.js**, incorporating loading and attack animations using **HTML** and **CSS**

Car Rental Database Management System | *Java, JavaFX, SQL, Oracle* | *September 2024*
- Developed a backend with **SQL** and **Oracle** for car rental operations, following BCNF best practices to enhance efficiency.
- Implemented over 15 advanced **SQL queries**, providing valuable insights into rental patterns and performance metrics.
- Developed a user-friendly frontend using **Java** and **JavaFX** with object-oriented programming **(OOP)** principles, integrating with backend shell scripts via **MobaX** and **SSH**.