MANREET KAUR LOTAY

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EDUCATION

Bachelor of Engineering - Software Engineering   **2021-2025 (Expected)**
Concordia University, Montreal, QC

SKILLS & QUALIFICATIONS

Programming Languages, Frameworks & Technologies: Java, JavaScript, C, C++, Python , HTML, CSS, Bootstrap, Express.js, React, Node.js, Git/GitHub, MongoDB, Eclipse, Visual Studio Code, Microsoft Power Platform
Languages: English, French, Punjabi, Hindi
Personal Skills: Multitasking, Problem-solving, Teamwork, Detail-Oriented
Coursework: Web development, Object-Oriented Programming, Data Structures & Algorithms, Operating Systems

WORK EXPERIENCE

Developer Analyst Intern | Robotic Process Automation Team   **September – December 2022**
Bombardier Aerospace, Dorval, Quebec

- Automated the business travel assessment and the internship assessment process for the Legal Services team by designing a user-friendly Microsoft PowerApp that allows employees and interns to upload necessary documents and respond to inquiries associated with their respective requests.
- Reduced manual intervention and follow-ups by the legal services team by connecting the app to a Power Automate flow, allowing notifications to be sent to the team upon successful completion of requests and allowing customized legal documents to be generated by populating Microsoft Word templates.

PROJECTS

Real Estate Website (Pioneers) | MongoDB, Express.js, React (MERN stack)

- Applied Agile methodologies with a team of 5 by dividing the project into four sprints, each featuring distinct user stories and tasks, and utilized Git and GitHub issues for version control and progress monitoring, respectively.
- Developed a login system to provide role-based views for homebuyers, brokers, and admins with distinct features such as favoriting property listings, utilizing a mortgage calculator, scheduling property visits, etc.
- Enabled CRUD operations on the users and properties collection in MongoDB.
- Implemented secure authentication using cookies and JWT tokens, enabling the persistence of user identity across site navigation.

Warzone Risk (Warzone) | C++

- Built a command-line play of the "Warzone" version of Risk, a game setup that consists of a connected graph map where each player's objective is to conquer all territories on the map.
- Utilized the strategy design pattern to create different kinds of players, each making distinct decisions during gameplay based on their concrete strategies.

Word Guessing Game (Guess) | Python

- Developed a console-based 4-letter word guessing game using object-oriented programming principles.