MANN PATEL

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Education

Bachelor of Computer Science Major (Co-op)   **Sept. 2022 – Present**
University of Manitoba   *Winnipeg, MB*

Relevant Coursework: Data Structures and Algorithms, Programming Standards and Practices, Discrete Mathematics, Distributed Computing, Object Oriented Programming, Databases Concepts and Usage, Statistics

Projects

Snake AI   Github
- Implemented a **Deep Q-Learning** algorithm in **Python** using **Pytorch** to train an agent for playing the Snake Game.
- Applied advanced reinforcement techniques, including **experience replay** and **epsilon greedy exploration** strategies, to optimize the agent's learning process and enhance its performance in the Snake game.

API WebServer   Github
- Developed a multi-threaded **Python** web server enabling static file serving, user authentication, and tweet management through **RESTful APIs**.
- Implemented a **distributed system** utilizing a coordinator and worker nodes, employing a **two-phase commit** protocol for transactional consistency.

Personal Website   Github
- Developed a personal portfolio website using **Next.js** and **React**, featuring multiple sections such as About, Projects, and Contact.**(url)**
- Designed a visually appealing layout with responsive design using **Tailwind CSS**, enhancing user experience and engagement.
- Utilized the **Web3Forms API** to handle form submissions securely, enhancing communication with potential clients and employers.

Formula 1 Database   Github
- Led a team of 3 in conceptualizing and creating a Formula 1 database using **SQL**.
- Designed and implemented a relational database tailored for Formula 1 analytics, prioritizing data normalization.
- Utilized **Python** with the **pyodbc** and **pandas** libraries, complemented with **Java Swing** for UI development.

Technical Skills

Languages: Java, Python, C, C++, HTML/CSS, JavaScript, SQL, R
Developer Tools: VS Code, Eclipse, Figma, Postman, R Studio, Android Studio, IntelliJ, Neo4j, MongoDB
Technologies/Frameworks: Linux, React, Node.js, GitLab, GitHub, .NET, JUnit, Next.js, Tailwind CSS

Experience

Sales Associate   **May 2022 – August 2023**
HomeSense   *Winnipeg, MB*
- Led the backroom team, optimizing merchandise processing and stocking efficiency within four months of the role.
- Resolved 90% customer issues and inquiries related to products and services, maintained a customer centric approach to foster positive shopping experience.
- Mentored new team members on POS system operation, effective customer service and sales techniques.
- Processed POS transactions, ensuring accuracy and efficiency in handling cash and credit purchases or refunds.

Leadership / Extracurricular

CanU Canada   **Winter 2023 – Present**
Tutor   *University of Manitoba*
- Provided personalized guidance to students aged 10 to 15, teaching HTML and CSS basics for website development, while adapting teaching methods to suit diverse learning preferences and abilities.
- Successfully instructed and engaged with over 200 students by the conclusion of Fall 2023, demonstrating commitment to improving coding education and positively impacting a significant number of young learners.