

Mann Patel

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EDUCATION

BACHELOR OF COMPUTER SCIENCE MAJOR (CO-OP OPTION)

Sept 2021 - Present

UNIVERSITY OF MANITOBA

Relevant Courses: Software engineering 1 (enrolled in), Computer architecture, Mathematics in Data Science, Databases Concepts and Usage

PROJECTS

SNAKE AI (PERSONAL PROJECT)

Dec 2023

- Implemented a **Deep Q-Learning** algorithm 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 (ACADEMIC PROJECT)

Oct 2023

- Developed a multi-threaded **API web server** for an interactive platform, enabling users to post thoughts and dynamically update content without page refresh.
- Implemented a strong consistency database using a 2 Phase Commit (2PC) protocol with a tiered model for efficient data processing.

FORMULA 1 DATABASE (ACADEMIC PROJECT)

Sept 2023

- Led a team of 3 in conceptualizing and creating a Formula 1 database using **SQL** for COMP 3380.
- 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

PROGRAMMING

Practical experience: Python, R, SQL, Java (Object Oriented Programming), .NET framework, React, Tailwind CSS

Course level experience: C, C++, JavaScript, HTML, CSS, Assembly

DATABASES

Familiar with: SQL, MongoDB, Neo4j

SOFTWARE

Familiar with: R Studio, IntelliJ, Postman, Visual Studio, Git/GitHub, Spyder, Microsoft Office, Android Studio

VOLUNTEER EXPERIENCE

CANUXWICS WEBSITE DEVELOPMENT WORKSHOP

Jan 2023 – Present

UNIVERSITY OF MANITOBA

- Instructed and provided guidance to students, ranging from grade 5 to grade 10, in the fundamentals of website development utilizing **HTML** and **CSS**. Tailored instruction to accommodate varying skill levels and learning styles, fostering an inclusive and supportive learning environment.
- Effectively instructed and engaged with **more than 200 students** by the end of Fall 2023, showcasing a dedication to enhancing coding education and leaving a beneficial influence on a substantial number of learners.

WORK EXPERIENCE

SALES ASSOCIATE / CASHIER

May 2022 - Aug 2023

HOMESENSE

- Mentored new team members on POS system operation, effective customer service and sales techniques.
- Led the backroom team, optimizing merchandise processing and stocking efficiency within four months of the role.
- Processed POS transactions, ensuring accuracy and efficiency in handling cash and credit purchases or refunds.
- Resolved customer issues and inquiries related to products and services. Maintained a customer centric approach to foster positive shopping experience.