RAJ PATEL

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Portfolio Website: rajpa7el.com

Profile Summary: Dedicated fourth-year student pursuing a Computer Science degree with a focus on software & web development and cloud computing. Eager to contribute to the tech industry, seeking an 8, 12, or 16-month internship starting in January 2025.

SKILLS

Languages: Python (Numpy, Pandas, scikit-learn, TensorFlow, Keras, OpenCV), Java, C, C++
Web Development: HTML, CSS, TailwindCSS, JavaScript, React.js, TypeScript, Node.js, Express.js
Databases: MySQL, MongoDB, Firebase
Mobile App Development: Flutter
Dev Tools: VS Code, GitHub, Eclipse, Jupyter, Anaconda, BlueJ, Postman
Professional: Communication, Teamwork, Leadership, Time Management, Creativity
Cloud Technologies: AWS (AWS Certified Cloud Practitioner)

EDUCATION

Bachelor of Science in Computer Science (Smart Systems)   **(2021 - 2025)**
Memorial University of Newfoundland, St. John's, NL
Awards: Faculty of Science **Dean's List** 2022-2023
Current GPA - 3.7/4.0
Related Courses: Data Structures and Algorithms, Operating Systems, Artificial Intelligence and Machine Learning, Visual Computing, Software Engineering

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PROJECTS

Serverless Email Marketing Application | AWS SES, Lambda, S3, EventBridge, IAM   **Link**
- Developed a serverless email marketing system using AWS services, including SES for email dispatch and Lambda for handling personalized email logic.
- Utilized S3 to store email templates and contact lists, and automated email scheduling with EventBridge.
- Configured IAM roles and policies to manage permissions for secure interactions between Lambda, S3, and SES.

Real-Time Chat Room App | MERN, TailwindCSS   **Source Code**
- Developed a real-time chat app to put knowledge of **WebSocket** to practical implementation using **Socket.io, Node.js, Express.js** with clear backend code being the focus to support seamless real-time communication.
- Built frontend using **React.js** and **DaisyUI** for an elegant frontend.
- Utilized **MongoDB** for storing chat messages and user data, ensuring efficient and reliable data management and **JWT** for authentication.

Can't Stop Board Game | Java, OOP, JUnit Testing, Java Swing   **Source Code**
- Collaborated with 4 others to create a desktop game digitally replicating the Can't Stop Board game.
- Designed the frontend and debugged **500+** lines of code.

Connect-4 AI Bot | Javascript, Data Structures & Algorithms   **Link**
- Designed an AI algorithm using MiniMax with Alpha-Beta Pruning to play Connect 4 game outperforming approximately 65% of human players.

Other projects include - **Hand Gesture Recognition System** using python's **OpenCV** and **TensorFlow** and **Chain Reaction Game** app using **Flutter.**

EXPERIENCE

Library Student Assistant   **May 2023 - Present**
Memorial University, St. John's, NL
- Assisting students, organizing books, discarding old books for shredding, and keeping a welcoming learning atmosphere.

MATLAB Software Developer   **January 2023 - April 2023**
Memorial University, St. John's, NL
- Created custom MATLAB toolboxes and user interfaces to streamline academic research and improve data visualization.
- Visualized data through plots and graphs using MATLAB while maintaining weekly learning reports.