# Tushar Billakanti

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## EDUCATION

**Memorial University of Newfoundland**                                               St. John's, CA
Bachelor of Science (Honours)                                                       Expected May 2024
Major in Computer Science; Minors in Business Administration
Dean's List Recipient 2020-21
Relevant Coursework: Artificial Intelligence; Algorithmic Design & Analysis; System Architecture; Computer Vision;
Software Engineering; Financial Management; Organizational & Entrepreneurial Behavior; Micro & Macro Economics

## EXPERIENCE

**Learning Design & Development Assistant - ISWEP**                                   St. John's, CA
Centre for Innovation in Teaching and Learning (CITL)                               Sep 2021 – Apr 2022
- Developed web pages for nursing courses which were taught online at MUN Nursing school and wrote technical reports for support page release notes. Refactored course content to avoid copyright infringement and achieve web accessibility.
- Utilized tech stack: HTML, CSS, JavaScript, H5P, Figma-UX/UI, Bootstrap

**Full Stack Developer - ISWEP**                                                      St. John's, CA
DIAG Lab                                                                            May 2022 – Sep 2022
- Worked in a team developing issue/ticket management system for a machine learning lab detecting medical images.
- Utilized tech stack: React, Postgre SQL, Django Flask, Docker

**Party Host**                                                                       St. John's, CA
Get Air Trampoline Park                                                             Sep 2021 – Apr 2022
- Hosted parties and ran day to day operations in a very fast-paced environment. Hosted cultural events and fests.

## PROJECTS

**MUN Ask_Bot - Featured Project**                                                         Dec 2023
- Designed & Developed a web app which answers all questions related to program/course information. It is trained on the university calender, uses OpenAI's neural language model's embeddings endpoint and completions API like ChatGPT.
- Model is fine tuned to remember conversations and chat like a human being, giving 85% accurate answers in 3 seconds.
- Utilized tech stack: React, Python, TypeScript, Tailwind CSS, Flask, OpenAI API

**EPFO Fetch API - Featured Project**                                                      Nov 2023
- Developed a script to fetch data bypassing Captcha to help a startup download public data, including over 100,000 companies, boosting their data reporting project timeline to under 2 months and reducing manual work by 95%.
- Utilized tech stack: Python, py-Pandas, Postman

**Collection of AI projects - Academic Project**                                           Sep 2023
- Built efficient path finding algorithms to solve mazes; Developed genetic algorithm to solve Sudoku; Built Connect 4 Game artificial algorithm using alpha-beta pruning and Mini-max algorithm.
- Revamped Knowledge on JavaScript, Path finding algorithms, Reinforcement learning, Genetic algorithms

**King Domino Board Game - Collaborative Academic Project**                                Apr 2023
- Developed a board game as a part of software engineering class.
- Revamped Knowledge on UML Class diagrams, Java, Swing, Use cases, Software Design patterns

                                                                                          Sep 2023
**Collection of computer vision projects - Academic Project**
- Developed and implemented various image processing filters, convolution filters, image quality boosters and compressors.
- Revamped Knowledge on Java, Python, OpenCV, TKinter, Pandas, numpy, Swing

## SKILLS & CERTIFICATIONS

**Technical Skills**:
- Languages: Python, Java, C, SQL, JavaScript (ES6), HTML, CSS, VBA, Git
- Frameworks: React, Tailwind, TypeScript, Flask, Django, Postman, Node.js, GraphQL, Figma, Netlify, Firebase, Docker

**Certifications:** Front-end Certification from University of Michigan (Coursera), Front-end Libraries (Full Stack Open)