MANN PATEL

306-510-4550| PatelMann@Proton.me| MannPatel0.github.io | ⍾ GitHub | 🔗 LinkedIn

EDUCATION

University Of Calgary   Calgary, AB
Bachelor of Science in Computer Science   Sep 2022 – Current
- *Concentration:* Computer Graphics
- Related Couse Work: Data Structure and Algorithm, Operating Systems, Computing Machinery

RELATED EXPERIENCE

AC ROBOTICS   Calgary, AB
Robocup SSL League Software Department   Sep 2023 – Current
- Create and enhanced pattern recognition using OpenCV, **increasing time efficiency** by *15-20%*.
- Improved robotic operations in complex environments developed AI algorithms for autonomy and pathfinding.
- Implemented deep learning for multi-agent control, inspired by DeepMind's techniques.

2358235 ALBERTA LTD.   Calgary, AB
IT Administrator   May – Sep 2024
- Installed and maintained wireless communication equipment, including wireless and PoE cameras.
- Developed a custom POS solution with a locally hosted database for seamless sales monitoring.
- Achieved a *94% cost reduction* by developing a custom-built solution, lowering cost from *$7,000 to $493*.

NATHACKS   Calgary, AB
volunteering
- Mentored hackathon participants, offering guidance on project development and problem-solving.
- Provided feedback to teams on technical challenges, helping refine their neurotechnology projects for final presentations.

PROJECT EXPERIENCE

PERSONAL PORTFOLIO
Personal Project   Jun – Sep 2024
- Designed a personal portfolio website using HTML, CSS, and JavaScript.
- Incorporated the Three.js library to create a unique and engaging 3D perspective, enhancing user interaction.
- Developed separate light and dark modes for a customized user experience.
- Ensured dynamic responsiveness for seamless viewing on different devices, making the website adaptable and user-friendly

HELIOS: POINT OF SALES
Contract Development   May – Aug 2024
- Led a team of three in developing a fast, lightweight POS system using *Python* and *MongoDB*.
- Designed the system for *cross-platform compatibility*, ensuring seamless operation on macOS, Windows, Linux.
- Optimized performance to enhance transaction speed and efficiency for small businesses.

ROBOCUP SSL ROBOT RECOGNITION
AC Robotics Software lead   Sep – Dec 2023
- Independently designed and developed robot recognition software for competitive environments.
- Enhanced robotic operations in complex environments by implementing AI algorithms for autonomy and pathfinding.
- Utilized OpenCV to create and enhance pattern recognition, **improving time efficiency** by *15-20%*.
- Implemented deep learning techniques for multi-agent control, inspired by DeepMind's strategies. In Progress

NATURES REPRISE
Game Dev Class   Jan – May 2024
- Led a team of five in developing a game using the Godot engine, exploring character physics and various rendering techniques.
- Created all in-game assets by hand, enhancing the game's unique aesthetic and style.
- Conducted over *50 playtests* with individuals, with *95%* expressing **positive feedback** and interested in replaying.

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, JavaScript, C, Json, HTML, CSS, ARMv8 Assembly
- **Operating Systems**: Windows NT/ 2000/ XP/ Vista, Linux, Unix, MacOS
- **Database**: SQL Server, MongoDB