

# MANN PATEL

306-510-4550 | 1782 Cornerstone Blvd NE, Calgary, AB | [MannPatel0.github.io](https://github.com/MannPatel0)  
| [Github.com/MannPatel0](https://github.com/MannPatel0) | [linkedin.com/in/mann-patel-18624a295](https://linkedin.com/in/mann-patel-18624a295)

## SUMMARY OF QUALIFICATIONS

- Proficient in multiple programming languages, with a proven track record of delivering innovative solutions that enhance functionality and reduce costs by up to 94%.
- Skilled in troubleshooting and deploying efficient technical solutions within diverse environments, including competitive robotics and small business systems.

## EDUCATION

### University Of Calgary

Bachelor of Science in Computer Science

Concentration: Computer Graphics

Calgary, AB

Sep 2022 - Present

- Related Course Work: Data Structure and Algorithm, Operating Systems, Computing Machinery

## RELATED EXPERIENCE

### AC ROBOTICS

Robocup SSL League Software Department

Calgary, AB

Sep 2023 – Present

- 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.

IT Administrator

Calgary, AB

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 the price from \$7,000 to \$493.

### nathACKS

volunteering

Calgary, AB

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

## PROJECT EXPERIENCE

### PERSONAL PORTFOLIO ( [MannPatel0.github.io](https://MannPatel0.github.io) )

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 POS

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 playtesting with over 50 individuals, with 95% expressing positive feedback and interest in playing again.

## TECHNICAL SKILLS

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