

MANN PATEL

| MannPatel0.github.io | Github.com/MannPatel0 | 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

Calgary, AB

Sep 2022 - Present

Concentration: Computer Graphics

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

RELATED EXPERIENCE

AC ROBOTICS

Calgary, AB

Robocup SSL League Software Department

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.

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

nathACKS

Calgary, AB

volunteering

- 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)

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