




# Ohm Patel

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 ohmstar123.github.io

## EDUCATION

**Bachelor of Engineering Science, Western University** 


*Fourth-year Software Engineer*

*Dean's Honor List for 2023-2024 Academic Year*


09/2021 – present

London, Ontario

## PROJECTS

**PigeonPlex, School Group Project** 

- Showcased adept use of a full-stack technology stack, including Python, Flask, MySQL, and frontend technologies, demonstrating practical skills in web development and database management.
- Implemented user-friendly interfaces with HTML, JavaScript, and CSS, enabling users to explore movie details, purchase tickets, and securely manage their accounts.
- Provided administrators with comprehensive tools to monitor movie analytics, add new movies, and perform user management tasks, enhancing overall system control and efficiency

**Superhero-Search, Personal School Project** 


- Independently developed a secure and dynamic platform using Firebase authentication, allowing users to search for superheroes based on various criteria.
- Implemented a seamless search functionality, providing users with dynamic results and detailed information about superheroes, along with external links for additional insights.
- Incorporated robust admin privileges, enabling administrators to block/unblock users, assign/revoke admin roles, and manage user access, enhancing overall system security.
- Demonstrated expertise in integrating Firebase for authentication, creating dynamic frontend features, and utilizing external APIs for enriched user experiences, showcasing innovation and proficiency in full-stack development.

**SuperOhioThrowdown, School Group Project** 

- A Pokémon-inspired game created using Python and the Pygame library, featuring strategic battles against grunts, mini bosses, and final bosses, demonstrating strong programming skills and game development expertise.
- Designed and created in-game characters, environments, and assets, showcasing artistic and graphic design abilities, and collaborated with a multidisciplinary team to ensure a polished final product.
- Conducted extensive user playtesting and feedback collection to refine gameplay mechanics, illustrating a commitment to user-centered design and game quality improvement.

**Storify, Personal Group Project** 

- Co-created open-source software using Python and MySQL to simplify database management. It offers a user-friendly, visually-driven approach to manipulate, create, and delete databases and tables.
- Implemented the "PrettyTable" Python library for enhanced data visualization, ensuring a user-friendly and aesthetically pleasing interface.
- Collaborated effectively with team members, demonstrating strong communication and teamwork skills throughout the project's design, development, and testing phases.
- Gained valuable experience in software development, database management, and data visualization, contributing to an accessible open-source solution for efficient database operations.

**Worlds Easiest Game 1 & 2, Personal Project** 

- Developed in C# using Visual Studio, featuring an intentionally challenging gameplay experience with a block character navigating obstacle-filled mazes.
- Designed intricate levels that require players to collect coins and keys to unlock gates, showcasing strong problem-solving and game design skills.
- Conducted playtesting sessions and gathered user feedback to fine-tune gameplay balance and enhance user engagement.

## COMPETITIONS

### **Western Engineering Competition, Competition at University (Year 2)**

- Collaborated effectively with a team to strategize and divide tasks.
- Employed programming expertise to create a dynamic and interactive graph and charting system using C# and Visual Studio.
- Implemented data sorting algorithms to organize information from the Excel sheet.
- Successfully presented the solution to a panel of judges, highlighting its efficiency and user-friendliness.

### **Hack Western 9, Hackathon**

- Collaborated with a dedicated team to ideate, design, and develop a multifaceted retro arcade game consisting of games such as WEG (1&2), Pong, Tic-tac-toe, and the iconic Tron light cycles.
- Leveraged C# and Visual Studio to implement game mechanics, user interfaces, and interactive elements.
- Demonstrated exceptional problem-solving skills by tackling complex challenges in real-time, ensuring a smooth and enjoyable user experience.

## WORK EXPERIENCE

### **Senior Manager, Exporior Financial Group (Part Time)**

02/2022 – present  
Remote, Canada/USA

Building financial foundations for families to empower them today and leave a legacy for tomorrow

- Provide clients with a consultation to determine their current financial situation
- Prepare customized financial solutions for current/potential clients based on their individual needs
- Hire, train, and promote new financial associates in the team
- Comply with all the company's risk and regulatory standards, policies, and controls

### **Factory Team Member, TG Minto (During The Summer)**

2020 – 2022  
Stratford, Canada

Follow work instructions to assemble quality parts for Toyota and Lexus at several different station

- Assemble different types of parts and visually examine them for any types of scratches or mistakes
- Work in a variety of stations in a safe manner while meeting hourly quotas
- Ability to handle numbers and different calculations to document daily productions
- Work within the Health and Safety guidelines and follow the company's rules and regulations

## SKILLS

Python	MySQL	MongoDB	Java	JavaFX	HTML	CSS	Javascript
C#	C++	React	Flask	Firebase	Canva	Visual Studio	VS Code
Word/Excel	Putty	AWS	IntelliJ IDEA	Cameo System Modeler	MATLAB		
OnShape	Fusion 360	GCP	Docker	Git	Googling		

## INTERESTS

Basketball	Machine Learning	Hackathons	Artificial Intelligence	Gaming
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