

# SILIN RAJ GUPTA

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## EDUCATION

### University of Waterloo

Bachelor of Computer Science

Waterloo, ON, Canada

Sep 2024 – Present

- Courses: Designing Functional Programs, Linear Algebra, Calculus, Object-Oriented Programming, Data Structures, Algorithms.

### Awards

President's Scholarship of Distinction

## EXPERIENCE

### Technical Intern

Nov 2022 - Dec 2022

Modulus Systems

London, UK

- One of two students chosen to contribute to a high-impact project developing AI-based systems for predicting consumer behavior, **reducing customer churn rates by 20%**.
- Conducted comprehensive data analysis and feature engineering, identifying patterns in consumer datasets that informed predictive models.
- Designed algorithms in **Python** and implemented them into machine learning pipelines, **accelerating model training and testing by 30%**.
- Collaborated with the technical team using **TensorFlow** and **Scikit-learn**, **improving prediction accuracy by 10%** compared to initial baselines.
- Presented findings and recommendations to the senior leadership team, contributing to actionable insights for business decisions.

### Intern

Apr 2021 – Jun 2021

Modulus Systems

London, UK

- Selected through a rigorous technical screening process, showcasing technical aptitude and problem-solving skills.
- Promoted client social media channels and digital campaigns, leading to a **75% increase** in monthly visitors (from approximately **1,000 to 4,000**).
- Utilized tools like **Google Analytics** and social media insights to track performance metrics and refine campaign strategies, driving audience engagement and increasing brand visibility.
- Collaborated with cross-functional teams to design promotional materials and improve user interaction with online platforms.

### Founder

June 2019- Dec 2019

Dropshipping Online Store

Remote

- Created and managed an online store using Shopify, targeting markets in the USA, Canada, New Zealand, and the UK
- Generated **\$20,000 revenue in six months**, managing supply chains and customer relationships.
- Used Facebook and Instagram ads to drive traffic, **achieving a 5% conversion rate**.
- Implemented automated email campaigns, **improving customer retention by 10%**.
- Handled product research, vendor negotiations, and inventory management.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, Racket, SQL

**Web:** HTML, CSS

**Technologies:** MySQL, MongoDB, Maven, Pandas, Power BI, Docker, MS Office Suite, Canva

## PROJECTS

### Telemedicine Portal Development | Python, Flask, HTML/CSS, JavaScript, React.js

Gurgaon, India

- Developed a telemedicine system for patients in remote locations (e.g., Iraq, Afghanistan, Africa)
- Added local healthcare providers for comprehensive consultation services.
- Contributed to an SOS system prototype for telemedicine emergencies.

### Chatbot for Online Store | Python, Shopify

New Delhi, India

- Developed a chatbot using **Python**, increasing sales by 25%.
- Integrated chatbot to assist customers, streamline purchases, and provide recommendations.
- Implemented real-time inventory checks to reduce cart abandonment.
- Connected chatbot with Shopify to automate order processing.
- Analyzed customer interaction data to improve chatbot responses.

### Rock-Paper-Scissors Hand Gesture Recognition Game | Python, OpenCV, MediaPipe

Waterloo, ON, Canada

- Created an interactive two-player Rock-Paper-Scissors game using hand gesture recognition through webcam input.
- Utilized OpenCV for video capture and MediaPipe Hands to detect and analyze hand landmarks for gesture classification (Rock: fist, Paper: open hand, Scissors: two fingers extended).
- Implemented game logic with a countdown timer, capturing gestures at "GO!" and determining the winner based on classic rules.
- Designed a real-time display showing hand landmarks, countdown timer, and game results on the video feed.