SILIN RAJ GUPTA

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EDUCATION

University of Waterloo   Waterloo, ON
Honours Bachelor of Computer Science, Co-op   *Sep 2024 – May 2029*

TECHNICAL SKILLS

Languages & Web: Python, JavaScript, C/C++, SQL, Node.js, R, Racket, HTML, CSS
APIs/Frameworks: React.js, Flask, OpenCV, MediaPipe, Spotify API, OpenAI API, Shopify API, REST API
Technologies: TensorFlow, Scikit-learn, Pandas, NumPy, GitHub Copilot, Claude, ChatGPT, Grok, Gemini, Cursor, Codeium, Tabnine, DeepSeek, Pear AI, Roo Code, Lovable, Blackbox, MySQL, MongoDB, Git, Docker, Vercel, Render, Google Analytics, Power BI, Maven, Klaviyo, Canva, MS Office Suite

PROFESSIONAL EXPERIENCE

Technical/Digital Marketing Intern   Apr 2024 – Jun 2024
Modulus Systems   *New Delhi, India*
- Developed **Python** AI solutions using TensorFlow and Scikit-learn, **reducing** user churn by **20%** across platforms.
- Executed digital campaigns with Google Analytics, driving **1,000** monthly visitors and **boosting** brand visibility.
- Engineered ML algorithms to automate data workflows, **enhancing** efficiency for cross-functional team analyses.

Telemedicine Systems Intern   May 2023 – Aug 2023
Mentors Ethicare   *New Delhi, India*
- Built a **Python**/Flask telemedicine platform, **increasing** patient satisfaction by **15%** through **streamlined** virtual care.
- Integrated MySQL patient records with **optimized** schemas, significantly **reducing** data access time for daily operations.

Founder   Jun 2019 – Dec 2019
Dropshipping Online Store   *Remote*
- Launched a Shopify store targeting multiple markets, generating **$20,000** in revenue within six months of operation.
- **Optimized** Facebook and Instagram ads using A/B testing, **achieving** a **5%** conversion rate and **increasing** sales.

PROJECTS

○ **Moosic Playlist Generator** | *React.js, Spotify API, OpenAI API, Tailwind CSS, Vercel, Render* ↗   Waterloo, ON, Canada
- Built a web app using **React.js** and Tailwind CSS, enabling Spotify-authenticated users to generate playlists from text prompts via OpenAI API.
- Integrated Spotify API for user authentication, playlist creation, and displaying top songs, **enhancing** music discovery.
- Leveraged OpenAI API to interpret user prompts and curate personalized playlists, automatically added to Spotify accounts.
- Hosted backend on Render to manage API interactions, ensuring scalable and secure data processing.
- Deployed frontend on Vercel, **achieving** a responsive UI with **100%** uptime for user access.

○ **Personal Portfolio Website** | *HTML, CSS, JavaScript, React.js* ↗   Waterloo, ON, Canada
- Developed a personal portfolio website using **React.js** to showcase projects, skills, and professional experience.
- Designed a responsive UI with HTML, CSS, and **JavaScript**, ensuring accessibility across devices.
- Integrated dynamic project showcases to highlight technical expertise and achievements.
- **Optimized** site performance and SEO, **increasing** visibility for professional opportunities.
- Maintained a clean, professional design to **enhance** personal branding for job applications.

○ **Rock-Paper-Scissors Hand Gesture Game** | *Python, OpenCV, MediaPipe*   Waterloo, ON, Canada
- Developed an interactive, gesture-based game using **Python**, OpenCV, and MediaPipe for real-time play.
- Implemented hand gesture detection with MediaPipe ML for responsive gameplay with **95%** recognition accuracy.
- Designed a **Python**-based UI to provide a seamless and engaging user experience.

Telemedicine Portal Development | *Python, Flask, HTML/CSS, JavaScript, React.js*   Gurgaon, India
- Developed a telemedicine system with Flask and **React.js** to enable daily consultations, **enhancing** patient access.
- Integrated MySQL database schemas to **streamline** consultation setup, **reducing** process time.
- Prototyped an SOS feature using **JavaScript** and Flask for faster emergency response.
- Designed a responsive UI with HTML/CSS and **React.js**, **improving** user satisfaction.
- Implemented secure data handling with Flask APIs, ensuring compliance with privacy standards.

Chatbot for Online Store | *Python, Shopify*   New Delhi, India
- Developed a **Python**-based chatbot integrating Shopify API and NLP to **enhance** customer service and drive sales.
- Implemented real-time inventory checks with Shopify API to display accurate stock levels, **reducing** drop-offs.
- **Optimized** NLP using Pandas for data analysis, **improving** response accuracy.
- Automated order processing via chatbot integration with Shopify, **reducing** manual workload.
- Analyzed customer data to personalize recommendations, supporting upsell revenue **increase**.