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

Programming & Core Technologies: Python, C, Racket, JavaScript, TypeScript, HTML, CSS, Next.js, React.js, Django, Flask, FastAPI

Data, AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Hugging Face Transformers, LangChain, LlamaIndex, Google Gemini API, OpenAI API, Anthropic API, Llama, Claude, Grok, MySQL, MongoDB, RESTful APIs, GraphQL, Postman

DevOps & Cloud: AWS (EC2), Docker, Git, GitLab, Vercel, Render, CI/CD, n8n

WORK EXPERIENCE

Software Developer Intern   May 2025 – Aug 2025
PolicyAdvisor   *Toronto, ON, Canada*
- Architected a **Next.js/Python** full-stack insurance automation platform, slashing manual document processing time by **98%** and freeing brokers to focus on client engagement.
- Developed an AI-powered document processing pipeline via **Google Gemini API**, achieving **99%+** accuracy across 10+ carriers and eliminating manual data entry.
- Built a dynamic document generation system with **React** and **Python** , real-time editing, and cloud storage, automating policy letter creation.
- Integrated **AI voicebot** for 24/7 appointment scheduling, cutting human intervention by **90%** during peak hours and enabling instant confirmations via chatbots, calendar sync, and SMS notifications.
- Transformed insurance comparison platform for the Canadian visitor market using **Next.js/React** and **multi-provider API** integrations with caching/error handling.

Software Developer 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.

Software Developer Intern   May 2023 – Aug 2023
Mentors Ethicare   *New Delhi, India*
- Constructed a **HIPAA-complian**t telemedicine platform utilizing **Python** and **Flask**, accelerating virtual care access by **40%** and shortening patient wait times by **10 minutes** per appointment.
- Integrated MySQL patient records with **optimized** schemas, significantly **reducing** data access time for daily operations.

PROJECTS

CompareIQ - Insurance Comparison Tool | *Next.js, Python, Google Gemini API, AI Automation*   PolicyAdvisor
- Streamlined insurance quote generation with a Next.js/Python platform, cutting comparison time by 3 hours, also resulting in a 5 star internal rating based on employee feedback.
- Leveraged **Google Gemini API** to build AI-powered document processing, reaching **99% accuracy** in data extraction across five major insurance providers, improving processing times by **60%** and reducing manual errors.
- Created an Excel generation system with dynamic calculations and professional formatting, eliminating manual spreadsheet creation and reducing errors.

AI Appointment Scheduling System | *AI Automation, API Integration, Workflow Design*   PolicyAdvisor
- Designed automated appointment booking system using **AI chatbots** and **calendar integration**, reducing manual scheduling by **90%** with instant confirmations.
- Orchestrated a streamlined appointment scheduling system by integrating **AI chatbots**, calendar applications, and SMS notifications, diminishing manual booking efforts by **90%** and allowing staff to focus on complex tasks.

Insurance Platform Development | *Next.js, React, TypeScript, API Integration* ↗   PolicyAdvisor
- Transformed an insurance comparison platform utilizing **Next.js** and **React**, uniquely serving the Canadian visitor market, recognized by senior leadership as the most complex project undertaken by an intern.
- Integrated multiple insurance **provider APIs** with intelligent caching and error handling, creating unified comparison interface for **real-time** quotes.

 Moosic Playlist Generator | *React.js, Spotify API, OpenAI API, Tailwind CSS, Vercel, Render* ↗   Personal Project
- Launched a user-friendly web application leveraging **Spotify** and **OpenAI APIs**, enabling personalized playlist creation from text prompts, which led to the creation of **100+ playlists** weekly.
- Leveraged **Spotify API** for user authentication, playlist creation, and top songs display with automatic playlist addition to user accounts.
- Deployed scalable architecture with backend on **Render** and frontend on **Vercel**, achieving **100%** uptime.