

# Sunehildeep Singh

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**Summary** — Proven software engineer with 3.5+ years of professional expertise, seeking challenging roles in AI/machine learning and software engineering. Adept at designing and implementing high-performance web and software applications, machine learning models, and innovative solutions.

## Skills & Technologies

**Languages:** Python, Typescript, JavaScript, Java, C#, PHP, Kotlin, Go, SQL, PL/SQL  
**Frameworks:** TensorFlow, PyTorch, scikit-learn, React, Next.js, Node.js, .NET, Flask, Chalice, FastAPI  
**Databases:** MySQL, PostgreSQL, MongoDB, Redis  
**GenAI:** RAG, LLM, Prompt Engineering, LangChain  
**DevOps:** Docker, Kubernetes, AWS, Azure, GCP, CI/CD, RabbitMQ, Prometheus, Grafana  
**Data:** Pandas, NumPy, Matplotlib, Spark, Hadoop, Kafka, Airflow  
**Tools:** Git, Selenium, Jira, Trello, Linux

## Experience

**Software Engineer (Full-Time)** Jan. 2023 – Present  
*Sun Glow Window Coverings Ltd.* Toronto, ON

- Built a Naive Bayes model for HomeDepot orders, cutting processing time by 20%, saving 50 work hours monthly
- Spearheaded development of 3 Next.js/React sites, boosting performance by 40% and driving record breaking revenue
- Developed and launched Dealer Portal using Next.js, enhancing user engagement by 30%
- Designed and implemented Builder Portal for condo construction contracts, resulting in a 10% revenue increase
- Redesigned the Off Cut Shades website, integrating SEO strategies that led to a 40% rise in organic search traffic
- Optimized CI/CD pipeline, cutting deployment time by 50% and enhancing code quality
- Led a 2-member team on Web & Python development, serving as liaison with management to boost productivity by 25%

**AI Engineer (Internship)** Sept. 2024 – Dec. 2024  
*Tandem Experiences* Toronto, ON

- Architected end-to-end AI dating transition system for GenZ users, featuring multi-stage NLP and dual LLM pipeline
- Built advanced NLP pipeline using VADER sentiment analysis to extract mutual interests between matched profiles
- Implemented TF-IDF scoring and cosine similarity algorithms to validate profile matching accuracy
- Designed parallel processing system for simultaneous entity extraction and geospatial computations
- Developed dual-phase LLM system for point of interest category generation and personalized date invitations
- Created intelligent venue filtering system using Google Maps API, geographical constraints, and user preferences
- Built FastAPI architecture orchestrating data flow between NLP, LLM, and location services
- Achieved 95% success rate across comprehensive system integration testing

**Software Developer (Contract)** Apr. 2020 – May 2021  
*Dreamz Academy* Remote

- Developed a comprehensive IELTS training application using C# for an immigration consulting firm during the pandemic
- Engineered multiple interactive page views for Listening, Reading, and Writing, with automated evaluation
- Enhanced operational efficiency by significantly reducing manual work, facilitating remote learning for students

## Education

**Bachelors of Software Engineering Technology - Artificial Intelligence (4.3/4.5 GPA)** 2021 – 2024  
*Centennial College* Toronto, ON

- Relevant Coursework: Supervised & Unsupervised Learning, Deep Learning, Neural Networks, NLP, Data Structures & Algorithms, Cloud Machine Learning, Big Data Tools

## Projects

**Encoder-Decoder Transformer LLM (TensorFlow)** 2023

- Built a transformer LLM from scratch achieving 85% accuracy on Reddit chat data
- Optimized inference time by 30% using curriculum learning, maintaining model performance
- Based on Google's Research Paper "Attention Is All You Need"

**RNN Text Generator Model (TensorFlow)** 2023

- Engineered an LSTM-based RNN to generate coherent and grammatically accurate text

- Demonstrated capabilities similar to GPT models in natural language generation

#### **GPT Portfolio** (*Next.js*)

**2023**

- Designed a portfolio leveraging LLM to generate real-time, personalized content
- Implemented prompt engineering with Gemini to enhance user experience

#### **Custom Fan Helios** (*C#*)

**2022**

- Developed a widely adopted software to control fan speeds on Acer Helios laptops
- Maintained a user base of over 500 with regular updates and support

### **Key Achievements**

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- **Google Foobar Invitation:** Received an invitation to Google's secretive Foobar hiring process in 2018, highlighting exceptional problem-solving skills and coding expertise
- **Arctic Code Vault Contributor:** Earned the prestigious Arctic Code Vault Contributor Badge in 2020, recognizing contributions to open source projects
- **Community Contributions:** Active early involvement in the SA:MP community, developing scripts and tools that became widely used and respected