

# Sunehildeep Singh

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## MACHINE LEARNING ENGINEER | SOFTWARE ENGINEER | PROBLEM-SOLVER

### KEY SKILLS

- **Machine Learning:** TensorFlow, Keras, PyTorch, scikit-learn
- **Full Stack Development:** Next.js, React, Angular, Node.js, Express.js
- **Programming Languages:** Python, Java, C#, Go, JavaScript, Kotlin, PHP, Pawn
- **Cloud Platforms:** Microsoft Azure, Amazon AWS
- **Tools:** Spark, Selenium, Git, Agile/SCRUM methodologies

### RELEVANT EXPERIENCE

#### Software Engineer

Jan 2023 – Present

Sun Glow Window Coverings Ltd., Toronto, Canada

- **AI Model Development:** Designed and implemented a machine learning model to optimize order processing, reducing processing time by 20%.
- **Website Development:** Led the development of 3 dynamic websites using Next.js, React, improving integration and performance.
- **SEO Enhancement:** Orchestrated a 40% improvement in website SEO post Next.js migration, significantly boosting organic search traffic.
- **User Engagement:** Revamped existing websites, enhancing functionality and user experience, resulting in a 30% increase in engagement.
- **Analytics & Conversion:** Boosted conversion rate by 20% and website engagement by 10% through targeted Google Analytics research.

### EDUCATION

#### Software Engineering Technology – Artificial Intelligence

Dec 2024

Centennial College, Toronto, ON

4.29/4.5 (A)

- **Courses:** Supervised Learning | Unsupervised Learning | Deep Learning | Neural Networks | Natural Language Processing (NLP) | Data Structures & Algorithms | Cloud Machine Learning | Big Data Tools | Software Systems Design | Mobile App Development | Java Programming | Software Testing & Quality Assurance

### PROJECTS

#### Machine Learning:

[github.com/stars/Sunehildeep/lists/machine-learning](https://github.com/stars/Sunehildeep/lists/machine-learning)

- **Chatbot Encoder-Decoder Transformer:** Implemented a transformer model from scratch using TensorFlow, showcasing expertise in NLP, and data pre-processing.
- **Text Generator RNN:** Developed a bespoke RNN-based model using TensorFlow for content generation.
- **Image Classification CNN Model:** Designed and trained a TensorFlow model for workout recognition, leveraging convolutional layers for precise computer vision tasks.
- **GPT Portfolio:** Created a personalized portfolio using AI to dynamically generate all content about me, including biography, work, skills, and answering questions related to me in real-time on user visits.

#### Web Development:

[github.com/stars/Sunehildeep/lists/web-development](https://github.com/stars/Sunehildeep/lists/web-development)

- **TeleCord:** Developed a messenger app for effective communication with integration of AI and AWS cloud, built with Next.js, Web Sockets, Chalice, and DynamoDB.
- **Chatbox:** Crafted a robust real-time chat application with React, Web Sockets, and MySQL integration.

#### Software Tools & Applications (Community Contributions):

[github.com/stars/Sunehildeep/lists/c-applications](https://github.com/stars/Sunehildeep/lists/c-applications)

- **Custom Fans Helios:** Engineered a bespoke C# tool for refined user-defined fan curve control in Acer Helios laptops.
- **Auto Max Fans Helios:** Devised a C# application for automated toggling of maximum fan speed based on

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system temperature, gaining recognition in the Acer unofficial community.

## NOTABLE ACHIEVEMENTS

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- **Extensive Personal Coding Experience:** Personal coding experience since 2014 as a teenager.
- **Work Performance:** Recognized for consistent excellence and contributions in current role.