

# Sunehildeep Singh

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## PROFESSIONAL SUMMARY

Final-year Software Engineering Technology student specializing in Artificial Intelligence, with 8 years of self-taught coding experience. Passionate about leveraging AI and machine learning to solve complex problems. Combines academic knowledge with practical experience in software development and AI implementation.

## CORE COMPETENCIES

- **Machine Learning & AI:** TensorFlow, Keras, PyTorch, scikit-learn, Natural Language Processing, Computer Vision
- **Full Stack Development:** Next.js, React, Angular, Node.js, Express.js, Chalice, Flask
- **Programming Languages:** Python, Java, C#, Go, JavaScript, Kotlin, PHP
- **Cloud & Big Data:** Microsoft Azure, Amazon AWS, Spark
- **DevOps & Tools:** Git, Agile/SCRUM, Selenium, CI/CD

## PROFESSIONAL EXPERIENCE

### Software Engineer

Jan 2023 – Present

Sun Glow Window Coverings Ltd., Toronto, Canada

- Lead and mentor a team of 2 professionals, overseeing multiple projects involving web development and Python.
- Act as the primary liaison between the development team and management, reporting directly to the company's executives.
- Engineered a machine learning model that reduced order processing time by 20%, significantly improving operational efficiency
- Spearheaded the development of 3 dynamic websites using Next.js and React, enhancing system integration and performance
- Implemented SEO strategies resulting in a 40% improvement in organic search traffic post-migration to Next.js
- Redesigned existing websites, boosting user engagement by 30% through improved functionality and user experience
- Leveraged Google Analytics to increase conversion rates by 20% and overall website engagement by 10%
- Play a key role in strategic decision-making and company-wide initiatives.

## EDUCATION

### Software Engineering Technology – Artificial Intelligence

Dec 2024

Centennial College, Toronto, ON

4.29/4.5 (A)

- **Key Courses:** Supervised & Unsupervised Learning | Deep Learning | Neural Networks | Natural Language Processing (NLP) | Data Structures & Algorithms | Cloud Machine Learning | Big Data Tools

## PROJECTS

### Machine Learning & AI:

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

- **Chatbot Encoder-Decoder Transformer:** Built a transformer model from scratch using TensorFlow, demonstrating advanced NLP capabilities
- **Text Generator RNN:** Developed a custom RNN-based model for dynamic content generation
- **Image Classification CNN Model:** Created a TensorFlow-based workout recognition model, showcasing expertise in computer vision
- **GPT Portfolio:** Designed an innovative portfolio that uses AI to generate real-time, personalized content

### Web Development:

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

- **TeleCord:** Developed a full-stack messenger app integrating AI and AWS cloud technologies (Next.js, Web Sockets, Chalice, DynamoDB)
- **Chatbox:** Built a real-time chat application using React, Web Sockets, and MySQL

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**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 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 system temperature, gaining recognition in the Acer unofficial community.

## ACHIEVEMENTS & ADDITIONAL INFORMATION

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- Self-taught programmer with 8 years of coding experience, starting at age 14
- Consistently recognized for exceptional performance and innovative contributions in current role
- Demonstrated ability to quickly learn and apply new technologies in both academic and professional settings
- Active contributor to open-source projects and passionate about staying current with emerging tech trends