

Sunehildeep Singh

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SUMMARY

An undergraduate student combining 2+ years of professional exposure and 6+ years of personal experience from an early age. Demonstrated expertise in developing machine learning models, advanced web and windows applications, coupled with a solid foundation in both theoretical and practical aspects of software engineering.

EDUCATION

Centennial College

Toronto, ON

Software Engineering Technology - Artificial Intelligence

Sept. 2021 – Dec. 2024

- GPA: 4.3/4.5
- Relevant Coursework: Supervised & Unsupervised Learning, Deep Learning, Neural Networks, Natural Language Processing (NLP), Data Structures & Algorithms, Cloud Machine Learning, Big Data Tools

EXPERIENCE

Software Engineer

Jan. 2023 – Present

Sun Glow Window Coverings Ltd.

Toronto, ON

- Spearheaded the development of 3 websites using Next.js and React, significantly enhancing system integration and performance, contributing to the company's most successful year.
- Created a Dealer Portal from scratch using Next.js, boosting user engagement by 30% through improved functionality and user experience for the company's dealers.
- Designed and launched a Builder Portal for condominium construction contracts, which played a key role in driving a 10% increase in company revenue.
- Redesigned the Off Cut Shades website in React and implemented SEO strategies, leading to a 40% improvement in organic search traffic.
- Engineered a Multinomial Naive Bayes machine learning model that reduced order processing time by 20%.
- Led and mentored a team of 2 professionals, overseeing projects in web development & Python automation.
- Primary liaison between the development team and management, reporting directly to the company's executives.

Software Engineer Freelancer

April. 2020 – May 2021

Dreamz Academy

Remote

- Developed a comprehensive IELTS training application using C# for an immigration consulting firm.
- Designed and implemented multiple interactive page views for key categories, including Listening, Reading, and Writing, featuring automated evaluation and real-time audio-to-text transcription.
- Enhanced operational efficiency during the COVID-19 pandemic by significantly reducing manual work, facilitating remote learning for students through the developed software.

TECHNICAL SKILLS

Languages: Python, Java, C#, JavaScript, PHP, Kotlin, Pawn, Go

Frameworks: React, Next.js, Node.js, Flask, Chalice

Developer Tools: Git, Docker, Selenium, CI/CD, Spark, Google Cloud Platform, Microsoft Azure, Amazon AWS

Libraries: TensorFlow, PyTorch, scikit-learn, pandas, NumPy, Matplotlib

PROJECTS

Encoder-Decoder Transformer Chatbot | *TensorFlow*

[GitHub Link](#)

- Built a transformer model from scratch using TensorFlow based on Google's research paper.
- Demonstrated advanced NLP capabilities and researched various aspects of natural language understanding.

RNN Text Generator | *TensorFlow*

[GitHub Link](#)

- Developed a custom RNN-based model for generating text content using TensorFlow.
- Explored different RNN architectures and optimized for text coherence and relevance.

CNN Classification Model | *TensorFlow*

[GitHub Link](#)

- Created a workout recognition model using TensorFlow, demonstrating expertise in computer vision.
- Experimented with various CNN architectures to optimize model accuracy.

GPT Portfolio | *Next.js*

[GitHub Link](#)

- Designed an innovative portfolio that leverages AI to generate real-time, personalized content.
- Integrated GPT technology to enhance user experience through content generation.

TeleCord | *Next.js, Chalice, Web Sockets, DynamoDB*

[GitHub Link](#)

- Developed a full-stack messenger app integrating AI and AWS cloud technologies.
- Utilized Web Sockets for real-time communication and Chalice with DynamoDB for serverless backend.

Custom Fans Helios | *C#*

[GitHub Link](#)

- Engineered a bespoke C# tool for user-defined fan curve control in Acer laptops.
- Enabled precise thermal management for better system performance and user comfort.
- Widely recognized and used by hundreds of users in the Acer community.