Sunehildeep Singh

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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.

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.

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