Sunehildeep Singh

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EDUCATION

Centennial College   **Sept. 2021 – Dec. 2024**
Software Engineering Technology – Artificial Intelligence   *Toronto, ON*

- **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

WORK EXPERIENCE

Sun Glow Window Coverings Ltd.   **Jan. 2023 – Present**
Software Engineer   *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 40% 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.

SKILLS & INTERESTS

- **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
- **Interests:** Research Papers; Gaming; Weightlifting; Guitar

PROJECTS

AI: **GitHub Link**

- **Encoder-Decoder Transformer Chatbot:** Built a transformer model from scratch using TensorFlow based on **Google's Research paper**, demonstrating advanced NLP capabilities and researching abilities
- **RNN Text Generator:** Developed a custom RNN-based model for content generation using TensorFlow.
- **CNN Classification 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 Link**

- **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

C# (Community Contributions):   **GitHub Link**

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