

Sunehildeep Singh

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MACHINE LEARNING ENGINEER

MACHINE LEARNING | FULL STACK DEVELOPMENT | PROBLEM-SOLVING

- 1.5+ years of professional working experience in Full Stack Development
- 7+ years of personal coding experience with active contributions, self-taught in 6 programming languages
- Current undergraduate student of Software Engineering technology, specializing in Artificial Intelligence
- Skilled with Python, Java, C#, Golang (Go), Kotlin, JavaScript, PHP, Pawn, SQL, PLSQL, DynamoDB, MongoDB
- Experienced in utilizing machine learning frameworks such as TensorFlow, Keras, PyTorch, and scikit-learn
- Skilled in front-end technologies like React, Angular, and Next.js
- Competent in back-end technologies including Chalice, Flask, Node.js, and Express.js
- Familiar with cloud development platforms such as Microsoft Azure and Amazon AWS
- Well-versed in utilizing tools like Spark, Selenium, Git, Trello, Jira, and Agile/SCRUM methodologies

KEY SKILLS

Software Engineering
Advanced Databases
Web Development
Cloud Development

Machine Learning
Neural Networks
Deep Learning
Natural Language Processing

Agile Practices
Software Testing & QA
Unsupervised Learning
Supervised Learning

EDUCATION

Software Engineering Technology – Artificial Intelligence

Expected 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

RELEVANT EXPERIENCE

Full Stack Developer (Co-Op & Part-Time)

Jan 2023 – Present

Sun Glow Window Coverings Ltd., Toronto, Canada

- Led the development of 4 dynamic websites utilizing Next.js, React, and PHP, ensuring seamless integration and optimal performance.
- Spearheaded the end-to-end development of 2 Next.js websites from scratch to deployment, incorporating best practices in coding and user experience design.
- Revamped 2 existing websites based on React, and PHP, enhancing functionality and user experience, resulting in a 30% increase in engagement.
- Engineered a machine learning model based on order history, reducing processing time by 20%, showcasing problem-solving and innovation, and enhancing operational efficiency.
- Orchestrated a 40% improvement in Sun Glow website SEO post Next.js migration, amplifying organic search traffic, and bolstering online presence.
- Conducted Google Analytics research, boosting conversion rate by 20% and website engagement by 10%, demonstrating a data-driven decision-making approach that led to achieving key business objectives.
- Recognized for distinguished performance in co-op with an offer for a continuing part-time role, showcasing consistent excellence and contribution to organizational success.

PROJECTS

Machine Learning:

- **Chatbot Encoder-Decoder Transformer:** Implemented a transformer model from scratch using TensorFlow, based on Google's Research paper. Demonstrated expertise in NLP, scraping datasets, and data pre-processing.
- **Text Generator RNN:** Developed a bespoke RNN-based model using TensorFlow for content generation.

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- **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:

- **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):

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