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	Machine Learning	Agile Practices
Advanced Databases	Neural Networks	Software Testing & QA
Web Development	Deep Learning	Unsupervised Learning
Cloud Development	Natural Language Processing	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: github.com/stars/Sunehildeep/lists/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: github.com/stars/Sunehildeep/lists/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):   github.com/stars/Sunehildeep/lists/c-applications
- **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.