

Andrew Daniel Singari

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WORK EXPERIENCE

Machine Learning Engineer

May 2023 - Present

SightSage Food and Nutrition Inc.

Richmond, BC

- Developed predictive models in **Python** and **R** using TensorFlow and Keras to analyze customer behavior and enhance e-commerce strategies.
- Developed an enterprise-level web application for real-time data analytics in e-commerce using **ReactJS**, **NextJS**, **TypeScript**, **Tailwind CSS**, **Python**, and **AWS (Lambda, S3, RDS, EKS)**, incorporating microservices architecture, CI/CD pipelines with **AWS CodePipeline**.
- Developed and optimized machine learning algorithms in **Python** to enhance recommendation engines, resulting in a 15% increase in customer engagement. Utilized **SQL** for data extraction and management, and integrated solutions via **RESTful APIs** into existing web applications.

Database Developer

August 2022 - February 2023

Coast Spas Manufacturing

Langley, BC

- Developed an AI-driven recommendation system utilizing machine learning models, such as collaborative filtering, using **Python** and **MySQL**, resulting in enhanced user personalization and increased customer engagement.
- Writing and optimizing complex **SQL** queries on server and **AWS Lambda** using data obtained from **Syspro ERP** application, integrated with an e-commerce website for automated entering of sales orders and invoices.
- Led the migration of the OAuth system, ensuring zero downtime and seamless integration using **Python** and **R**, while optimizing authentication workflows and enhancing security protocols.

Data Analyst

June 2021 - June 2022

Worldlink Exports

Remote

- Implementation of a scalable, cloud-based data processing and analytics platform, integrating machine learning algorithms for automated data preprocessing pipelines, reducing preprocessing time by over 30%.
- Created custom **Power BI** reports for clients, utilizing DAX queries on multiple tables. Reduced manual intervention by 25%, resulting in time saving and enhanced productivity.

PROJECTS

Cognitive Games



Collaborated with a team. Games aimed at assisting dementia patients. Utilized **MicroPython** on an **ESP-32** microcontroller to integrate hardware and software components seamlessly. Real-time data recording of players' performance was sent to a remote server using **PHP** and **MySQL** to record, visualize, and analyze performance data retrieved from database on the web application.

EDUCATION

Trinity Western University

British Columbia

GPA: 3.8

Bachelor of Science (B.Sc.) Computer Science

SKILLS

Programming Languages	Python, R, Java, C#, JavaScript, TypeScript, PHP, Node.js
Machine Learning Tools	TensorFlow, PyTorch, Keras, Scikit-learn
Database	MySQL, PostgreSQL, MongoDB, Oracle RDBMS, Redis, MS SQL Server
Data Analytics	Google Analytics, PowerBI, Tableau, Qlik, Microsoft Dynamics 365 CRM
Deep Learning	Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Generative Adversarial Networks (GANs)
Model Deployment	Docker, Kubernetes, Microsoft Azure, Git, Jira, Confluence, ServiceNow