

SRINI VANKADARI

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Education

University of Western Ontario

Expected Graduation: April 2027

Bachelor of Software Engineering

London, Ontario

- Relevant Courses: Algorithms and Data Structures, Project Management Fundamentals, Object-Oriented Programming, C# and .NET Development, Database Management Systems, Networking Principles and Architecture
- Certifications/Programs: IBM Z Ambassador, AWS Certified Cloud Practitioner, IBM Z Advanced Concepts Badge

Experience

Bank of Montreal (BMO)

May 2025 – August 2025

Software Developer Intern

Toronto, Ontario

- Developed an **internal automation tool** using **PyPDF** and **Pandas** to extract and populate PDF forms with branch data, streamlining document workflows and improving operational efficiency.
- Built a **data pipeline** using **IBM Assembler** and **Python** to convert encoded branch messages into structured tables, processing **1,000+ records** and exporting them into Excel for non-technical teams, cutting analysis time by **40%**.
- Conducted **quality assurance testing** on applications, including unit testing, data validation, and edge case analysis, ensuring reliability, accuracy with user requirements throughout the **Software Development Life Cycle**.
- Collaborated with cross-functional teams to develop and pitch an **AI-driven** incident response strategy to **C-suite executives**, demonstrating leadership, adaptability, and strong interpersonal communication.

MomentumMind

May 2024 – August 2024

Full Stack Developer Intern

Mississauga, Ontario

- Developed and deployed a scalable application using **React**, **Tailwind CSS**, and **Node.js**, implementing **CI/CD** workflows in **GitHub Actions** that cut deployment time by **45%** and minimized production errors.
- Designed and shipped a real-time **payment system** using **Stripe Webhooks** to automate billing status updates, reducing manual transaction verification by **10 hours** per week.
- Optimized **PostgreSQL** inventory queries and indexing strategies, integrating automated schema validation into **CI/CD** to prevent deployment errors and improve query execution speed by **25%**

Leadership / Extracurricular

Western Cyber Society

Sep. 2024 – Current

Project Manager & Lead Software Developer

London, ON

- Leading a team of 5 in **Agile** for the development of a real-time credit risk evaluation platform on an IBM z/OS mainframe using **zCX**, integrating a **Node.js** frontend with a **FastAPI** backend and executing low-latency ML inference via an **ONNX-hosted XGBoost** model containerized using **docker**.
- Implemented explainable AI using **SHAP** to provide feature-level transparency for credit decisions, persisting risk scores and explanations in **IBM Db2** to support auditability, compliance, and downstream analysis.

Projects

NBA Fantasy App - AI NBA Player Stat Predictor

- Integrated an automated ETL pipeline using **Node.js** and **Cron** to schedule daily API pulls into **PostgreSQL**, supporting an **XGBoost** model that reduced prediction **RMSE** by **18%**.
- Developed a responsive **React** frontend deployed on **AWS EC2** with a **Streamlit** dashboard to visualize daily projections and track model accuracy against real-time game results.

Amazon Price Tracker Web Scraper

- Created a full-stack web application using **Python** and **Next.js** to allow users to search for products on Amazon, scrape relevant data, store it in a **SQL** database, and visualize price trends through an interactive **D3.js** chart
- Engineered the backend architecture with **FastAPI** and **BeautifulSoup**, building RESTful endpoints to scrape Amazon data, store it in **SQL**, and serve it to the frontend application.

Campus Safety App

- Engineered a real-time location-sharing system using **Go** and **Swift**, leveraging **AWS Lambda** and **SNS** to automate geo-fence triggers and push notifications for safety requests.

Skills

Languages: JavaScript, Python, Assembly(IBM), Java, C/C++, SQL, PHP, GO, Swift

Developer Tools: Git, Docker, AWS (EC2, Lambda, SNS), IBM z/OS, Postman, Airflow, GCP, Azure

Technologies/Frameworks: React, Next.js, Node.js, FastAPI, PostgreSQL, Scikit-learn, XGBoost, BeautifulSoup