

Sathya Sriram

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EDUCATION

McGill University

Montreal, Canada

Bachelor of Science in Computer Science, Minor in Neuroscience

Aug. 2023 – Apr. 2027

Relevant Coursework: Object-Oriented Programming (**Java, Python**), Data Structures and Algorithms, Software Systems (**Linux, C**), Model-Based Programming (**Java**), Computer Systems (**MIPS Assembly**), Digital Logic (**VHDL**) Discrete Mathematics, Probability and Statistics, Political Science Research Methods (**RStudio**), Molecular Biology

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, TypeScript, HTML, CSS, R, SQL

Data Science Tools: Pandas, Matplotlib

Machine Learning & AI: scikit-learn, PyTorch, Tensorflow, Langchain, NLP, MLOps, LMStudio

Web/App Development Frameworks: React, NextJS, Flutter, Kotlin, Flask

Cloud, Databases & DevOps: AWS, PostgreSQL, Supabase, Prisma, CircleCI

Developer Tools: Git, Eclipse, IntelliJ, Gradle

EXPERIENCE

Software Developer Intern

Jun. 2025 – Aug. 2025

Genesys International Corporation

Mumbai, India

- Researched and implemented a **Green Light Optimised Speed Advisory (GLOSA)** algorithm, reducing stop times by **40%** and carbon emissions by **8%**.
- Analysed data requirements and evaluated algorithmic strategies to deliver a proof of concept, applicable across **5 intersections** in India.
- Built **3 tools** (**routing**, **search_places**, **distance_matrix**) for an AI navigation assistant with natural, human-like dialogue.
- Developed **3 Flask endpoints** for session management, LLM response, and conversation history.
- Integrated real-time **Automatic Speech Recognition (ASR)** and speech synthesis for a hands-free navigation experience.

PROJECTS

Nuclear : AI Startup | *Next.js, Tailwind CSS, Prisma, Supabase*

May. 2025

- Co-founded Nuclear, an AI-powered learning companion startup, as **CTO** with a team of 4.
- Spearheaded a full-stack platform incorporating 3 study modes, content organisation, and multi-modal processing.
- Included a Redis-based caching system, reducing data retrieval by **60%**.
- Selected by **McGill TechAccel** as one of **15** teams out of **200+** applicants.

Grocery Management System | *Java, Gherkin, JavaFX*

Apr. 2025

- Engineered a full-stack application with a team of 5 using the **MVC** pattern, with **14 controller classes** and **11 model classes**, delivering robust inventory, order, shipment, and user management features.
- Applied **Test-Driven Development (TDD)** principles by implementing **8 automated Cucumber test suites** and **8 feature files**, ensuring comprehensive test coverage and reliability across all core business processes.

SchizoSense | *Python, Flask, scikit-learn*

Dec. 2024

- Designed a web-based **Schizophrenia Diagnostic Tool** utilising logistic regression to classify patients using functional and structural brain imaging data with confidence scoring.
- Created a user-friendly interface to support mental health research and diagnostic analysis.
- Achieved key metrics: **Accuracy: 77.78%**, **AUC: 91.36%**, **Log Loss: 43.18%**.

Where's my Jam?: CodeJam 14 | *Next.js, Python, FastAPI*

Nov. 2024

- Developed a nutrition tracking application with a team of 3, integrating real-time barcode scanning to analyse nutritional data with health scoring algorithms.
- Built a Python backend with **5 RESTful endpoints**.
- Integrated OpenAI GPT-4 for intelligent recipe generation and food classification with real-time data visualisation.