

Sri Charan Gurralla

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EDUCATION

Toronto Metropolitan University

September 2021 – June 2025

Bachelor of Science (Honours) - Computer Science

Toronto, ON

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Database Systems, Computer Networks, Web Development, Computer Graphics, Artificial Intelligence, Cybersecurity
- **Highlights:** 2× Dean's List Scholar; Member – TMU Algorithms & Coding Club

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C/C++, SQL, R, Go, Kotlin, Bash, Assembly

Frameworks: Django, React, PyTorch, TensorFlow, Spring Boot, Angular, Next.js, scikit, NumPy, OpenCV, Node.js

Tools: Git, Docker, Postman, Jira/Confluence, MongoDB, PostgreSQL, Selenium, Heroku, AWS, GCP

EXPERIENCE

AI Software Developer

September 2025 – Present

Snorkel AI

Remote

- Engineered production-grade Python applications with modular design, error handling, and thorough unit testing.
- Performed code reviews and managed pull requests in GitHub, enforcing coding standards and seamless integration.
- Utilized LLMs to generate, debug, and optimize Python code, refining prompts to achieve clean, deployable solutions.
- Implemented validation workflows for AI-generated code, including static analysis, style checks, and runtime testing.

Software Engineer Intern

May 2024 – August 2024

Sparex

Remote

- Collaborated in an agile environment, incorporating iterative feedback to enhance product features and design.
- Developed a responsive website, employing React.js and modern CSS techniques like Flexbox and Grid
- Increased user transactions by 25% through third-party APIs, enabling transactions and social media interaction.
- Optimized site performance using image compression and lazy loading, reducing load times by 40%.

Coding Instructor

May 2022 – August 2022

Aga Khan Academy

Hyderabad, IN

- Taught Java and Python programming to students through interactive, hands-on teaching methods.
- Developed curriculum to accommodate diverse skill levels, enhancing student engagement and comprehension.
- SOrganized workshops and hackathons to foster teamwork and problem-solving skills.
- Provided timely, targeted feedback through assessments to promote individual growth and mastery.

PROJECTS

AI-Based Health Monitoring System 🌀 | *Python, TensorFlow, Keras, SQL, Flask, Docker*

- Engineered an AI-powered health platform with real-time anomaly detection for vital signs, improving proactive care, and simulating ETL pipelines for health metrics.
- Developed backend services to store and query patient metrics using SQL.
- Deployed using Docker containers to ensure consistent performance across development and production environments.
- Integrated alert logic to automatically flag unusual health metrics.

TMU Classifieds 🌀 | *React, MongoDB, Express, Node.js*

- Led end-to-end development of a MERN stack classifieds platform featuring search, messaging, and ad management.
- Defined and built system flows including authentication, CRUD operations, and real-time chat integration.
- Managed cloud database via MongoDB Atlas to support 10,000+ concurrent listings with scalable architecture.
- Coordinated UI/UX design for full responsiveness and cross-platform compatibility.

Sentiment Analysis Dashboard 🌀 | *Vue.js, Flask, Vercel, NLP*

- Built a real-time internal dashboard that classifies user input using NLP techniques.
- Developed REST APIs with Flask; handled errors, edge cases, and real-time debugging.
- Documented system behavior and collaborated with team members to improve tool reliability.
- Conducted tests and optimizations to improve reliability and response time under high user load.

Stock Market Simulation 🌀 | *Java, Alpha vantage API, java swing*

- Built a GUI-based trading simulator fetching real-time market data through Alpha Vantage APIs.
- Designed system logic for simulating portfolio management, including buy/sell strategies and historical tracking.
- Evaluated API integration performance and refined UI for an engaging user experience.