Sri Charan Gurrala

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Education

Toronto Metropolitan University   September 2021 – May 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:** Toronto Metropolitan Algorithms & Coding Club, 2x Dean's List Scholar

Experience

Web Developer Intern   May 2023 – August 2023
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 in grades 6-10, using interactive and hands-on teaching methods.
- Developed curriculum to accommodate diverse skill levels, enhancing student engagement and comprehension.
- Organized workshops and hackathons to foster teamwork and problem-solving skills.
- Provided timely, targeted feedback through assessments to promote individual growth and mastery.

Technical Support Team Leader   January 2019 – May 2019
Flash Organization   *Hyderabad, IN*

- Led a technical support team, quickly troubleshooting to ensure smooth event operations.
- Managed AV, networking, and live streaming setups, ensuring perfect execution.
- Directed installation and management of sound, lighting, and multimedia systems for an immersive event experience.
- Oversaw live streaming setup, ensuring high-quality video feeds for virtual and hybrid events.

Projects

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

- Built an AI-powered platform that tracks vitals and predicts potential issues using real-time anomaly detection models.
- Designed and implemented a Flask-based backend to manage patient data and integrate health metrics.
- Utilized Docker to ensure consistent deployment across different environments.

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

- Developed a MERN stack application with features including search, ad posting, messaging, and an admin dashboard.
- Ensured cross-platform accessibility with a fully responsive design optimized for mobile devices.
- Leveraged MongoDB Atlas for efficient and scalable data management, supporting up to 10,000 ads.

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

- Built a real-time sentiment analysis platform that classifies text as positive, negative, or neutral using NLP models.
- Implemented a Flask-based backend to handle sentiment analysis requests and return real-time feedback.
- Utilized serverless functions to handle API requests efficiently and scale without the need for dedicated servers.

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

- Created a real-time stock market simulation with a graphical user interface using Java Swing.
- Integrated the Alpha Vantage API to fetch and display live stock data, enabling users to simulate trades.
- Enhanced user engagement by implementing interactive features for buying, selling, and portfolio management.

Technical Skills

Languages:	Python, JavaScript/TypeScript, Java, C/C++, HTML, CSS, R, Go, Assembly, SQL, Kotlin, Bash
Frameworks:	React, Django, Spring Boot, Next.js, Angular, PyTorch, scikit, NumPy, OpenCV, Node.js, GraphQL
Tools:	Git, Docker, Postman, Jira/Confluence, MongoDB, PostgreSQL, Heroku, AWS, GCP