

Sai Charan Eppa

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EDUCATION

University of Alabama at Birmingham, *Birmingham, Alabama*

Dec 2025(Expected)

Master of Science in Computer Science, Gradepoint – 3.5/4.0

Osmania University, *Hyderabad*

Aug 2019 – Jul 2023

Bachelor of Engineering in Computer Science and Engineering, Gradepoint – 7.93/10

EXPERIENCE

Cloud Data Engineer, *QuantumCore Technologies*

May 2025 – Present

- As a Cloud Data Engineer Intern at QuantumCore Technologies, I build and deploy machine learning models using Vertex AI, Cloud Run, and Docker for real-time energy optimization and quantum system simulation. I manage cloud infrastructure, debug deployment pipelines, and engineer secure data workflows across GCS and BigQuery. This role allows me to contribute directly to scalable AI systems while gaining hands-on experience in cloud-native MLOps.

Embedded Systems Intern, *DRDO*

Jun 2023 – Aug 2023

- Engineered missile orientation models utilizing Altair Embed, generating automated code and reducing manual coding time by 30%, while integrating this code into missile control systems using 8086 microprocessors.
- Integrated adaptive noise cancellation techniques into signal processing algorithms, reducing sensor interference by 15 decibels, directly contributed to more reliable target acquisition.

PROJECTS

Decentralized E-Voting Portal Using Blockchain

- Designed a blockchain-based voting system prototype that processed 1,000 simulated votes with zero unauthorized modifications, showcasing the system's resistance to tampering, and achieving a 99.9% data integrity rate.
- Implemented smart contract-based authentication mechanism on Ethereum, reducing unauthorized access attempts by 75% and streamlining voter verification processes by 20%.

Mid-Day Meals Analytics

- Conducted nutritional analysis of school meals and identified 3 key micronutrient deficiencies, leading to targeted fortification strategies that boosted student energy levels and cognitive function.
- Spearheaded the creation of an Excel-based meal planning tool incorporating dietary guidelines, enabling nutritionists to formulate balanced meal plans in 30 minutes and adhering to strict regulatory standards.

TECHINICAL SKILLS

- Programming Languages:** C, C++, Java, Python, R, HTML, CSS, JavaScript, Solidity.
- Tools & platforms:** Visual Studio Code, MetaMask, Ganache, AWS, Google Cloud, Git, GitHub.
- Libraries:** Pandas, Scikit-Learn, TensorFlow, NumPy, PyTorch.
- Databases:** MySQL, PostgreSQL.
- Other Skills:** Data Structures, Object Oriented Programming, JDBC.

ACHIEVEMENTS & CERTIFICATIONS

- Implemented multiplayer networking module in C using TCP/IP sockets, enabling seamless online gameplay for up to four simultaneous players and enhanced competitive experience.
- Enhanced proficiency in crafting and debugging SQL queries through Hackerrank, identified and corrected three critical data discrepancies, ensuring accurate parameter transmission and improving overall system reliability.
- Designed and delivered a three-day intensive workshop on Artificial Intelligence, covering deep learning, reinforcement learning, and natural language processing, increasing model accuracy by 12%.
- Migrated legacy systems to Google Compute Engine, creating detailed documentation for the team and cutting infrastructure costs by 15% through efficient resource allocation and rightsizing of virtual machines.