

# SRIKANTH PUSTHEM

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## EDUCATION

### University of Cincinnati

*Masters in Computer Science*

GPA: 4.0

Cincinnati, Ohio

2023 – April 2025

**Coursework:** Software Architecture, Operating Systems, Cloud Computing, Advanced Algorithms, Advanced Methods in Machine Learning

### VNR Vignana Jyothi Institute of Engineering and Technology

*Bachelor of Technology, Computer Science and Engineering*

GPA: 3.6

Hyderabad, India

2017 – 2021

**Coursework:** C++, Python, JAVA, Database Management System, Software Engineering, Operating Systems, Network Theory, Data Structures, Web Technologies, Data Mining, Machine Learning, Big Data Analytics

## EXPERIENCE

### Impacter AI, Inc.

*Software Engineer – Front-End Development & LLM Integration*

San Francisco, CA

Jun 2025 – Present

- Architected and developed advanced UI development solutions using React and Node.js frameworks, integrating Large Language Models through LLM APIs including OpenAI and Anthropic for next-generation user experiences.
- Led technical decision-making and design reviews with cross-functional teams to evaluate front-end frameworks and implement optimal Software Development Lifecycle practices for AI-driven applications.
- Enhanced application performance by 40% through systematic debugging, performance optimization, and AI-powered development tools including GitHub Copilot and Cursor for accelerated development workflows.
- Implemented prompt engineering strategies and LLM API integrations to transform user interactions with AI applications, following internal conventions and standard procedures for scalable deployment.
- Collaborated extensively with peers and project leads during code reviews, providing technical feedback on testability, efficiency, and adherence to established coding standards and internal processes.
- Resolved critical system issues through systematic analysis of performance bottlenecks, implementing solutions that improved user experience and service operations reliability.

### One Community Inc.

*Full Stack Software Developer*

San Gabriel, CA

Dec 2024 – April 2025

- Implemented comprehensive Software Development Lifecycle tasks using MERN stack (MongoDB, Express.js, React, Node.js), supporting over 10,000 active users with 99.9% uptime while designing RESTful APIs and cross-device communication services following established internal conventions and standard procedures.
- Built dynamic, responsive UI development solutions using React with advanced state management through React Hooks and Redux, collaborating with UX designers and product owners in Agile environments while applying version control systems (Git) with rigorous code review processes and CI/CD implementation.
- Optimized database architecture and query performance in MongoDB achieving 20% improvement in data retrieval speeds, integrated third-party APIs including authentication systems and payment gateways, following internal standards and technical decision-making processes for secure application functionality.
- Developed real-time communication features using Socket.IO and testing frameworks including Jest and Mocha ensuring 95% test coverage, diagnosed and resolved performance bottlenecks reducing application load times by 30% through systematic analysis aligned with internal conventions.

### University of Cincinnati

*Software Engineer Intern – Full Stack Development*

Cincinnati, Ohio

Sep 2023 – Mar 2024

- Led cross-functional collaboration with 5 developers implementing Software Development Lifecycle tasks in Agile/Scrum environment, making technical decisions and delivering Grant Tracking System project on schedule.
- Architected comprehensive software solutions using Node.js, MySQL, and React following established internal conventions and standard procedures for university-grade application development.
- Implemented intuitive UI development designs resulting in 30% increase in user engagement through enhanced user experience and technical optimization decisions.
- Spearheaded Multi-Factor Authentication (MFA) security architecture design and implementation using JavaScript, applying internal standards and processes for robust security protocols.
- Achieved 40% reduction in unauthorized access attempts through systematic security implementation and technical decision-making, improving overall system reliability and security posture.
- Participated actively in design reviews and code reviews, collaborating with peers and project leads to maintain high coding standards throughout the development lifecycle.

### TATA Consultancy Services

*Systems Engineer*

Hyderabad, India

July 2021 – July 2023

- Client Project:** The Vanguard Group, Inc – Leading American investment advisory and mutual funds provider.

- Implemented comprehensive Software Development Lifecycle tasks specializing in system architecture, reliability engineering, and scaling solutions for enterprise-grade financial systems.
- Engineered robust backend services and APIs using Spring Framework, making technical decisions and implementing design patterns that resulted in 20% reduction in system response times.
- Designed and orchestrated complex ETL workflows using IBM DataStage, following internal conventions and standard procedures to enhance data accuracy and system reliability by 25%.
- Led environmental setup and system migrations ensuring zero-downtime deployments, collaborating with cross-functional teams and applying established internal processes for mission-critical applications.
- Applied advanced database optimization techniques in MySQL environments following standard procedures, achieving 30% improvement in query performance through systematic technical decisions.
- Implemented comprehensive CI/CD pipeline using Jenkins for automated build processes and testing frameworks, integrating with Bitbucket for version control systems (Git) management.
- Achieved 35% reduction in deployment times through Software Development Lifecycle optimization and automated testing integration, following internal conventions for efficient release processes.
- Developed proactive monitoring solutions and automated scripts following established procedures, ensuring operational continuity and system reliability across heterogeneous systems.

## TATA Consultancy Services

Hyderabad, India

### Digital Software Engineer Intern

Oct 2020 – Jan 2021

- Developed responsive UI development solutions using React and Material-UI framework implementing performance optimization techniques including hooks and memoization reducing load times by 25%, while building scalable full-stack applications with Node.js and MongoDB incorporating advanced database design patterns improving query performance by 30%.
- Designed and deployed computer vision models using OpenCV for automated vehicle damage detection achieving 15% accuracy improvement with 200ms average latency, participated in Agile development methodology including code review processes and sprint planning contributing to 20% increase in team productivity and software quality.

## TECHNICAL SKILLS

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- **Programming Languages:** Java, C, Python, C++, JavaScript
- **Web Technologies & Databases:** SQL, React, Node.js, MongoDB, CSS3, HTML5, Bootstrap, jQuery, JSON
- **AI & LLM Technologies:** Prompt Engineering, LLM APIs (OpenAI, Anthropic), AI-powered development tools (GitHub Copilot, Cursor, Cody), LangChain, RAG pipelines
- **Frameworks:** Spring, React Native, React Libraries, Flutter, NumPy, Pandas, Matplotlib, OpenCV
- **Development Tools & Version Control Systems:** Visual Studio Code, Git, GitHub, Bitbucket, JIRA, Jupyter Notebook, Anaconda
- **Cloud Platforms Services:** AWS (S3, EC2, RDS), Azure, Cloud-based APIs
- **Software Development Lifecycle:** Agile/Scrum, CI/CD, Code Reviews, Testing Frameworks (Jest, Mocha), Internal Conventions, Standard Procedures
- **Visualization & Analytics:** Streamlit, Looker Studio, Power BI, Excel

## ACADEMIC PROJECTS

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### CricBot – AI-Powered Cricket Insights Assistant with LLM Integration

- Architected CricBot using advanced prompt engineering strategies and LLM APIs including Gemini API integration with RAG pipeline for contextually accurate natural language query processing.
- Designed scalable data integration system connecting multiple data sources, transforming unstructured data into searchable vector embeddings using FAISS for semantic retrieval.
- Developed conversational UI development interface using Streamlit framework, enabling users to explore comprehensive statistics through interactive chat interface with real-time LLM API responses.

### Project FARRACO – Soil Monitoring and Crop Recommendation System

- Developed cross-platform mobile application using Flutter framework following Software Development Lifecycle best practices, reducing development time by 30% while ensuring consistent user experience.
- Integrated real-time IoT sensor data processing with Firebase implementing multi-neural network architecture for intelligent recommendations based on environmental factors.
- Achieved 92% prediction accuracy through advanced machine learning algorithms, resulting in 15% increase in agricultural yield through systematic technical decision-making.

### Automatic Timetable Generator for University

- Implemented Genetic Algorithm optimization system automating university scheduling processes, reducing manual effort from 2 days to 5 minutes through systematic technical solutions.
- Developed real-time class scheduling optimization engine with 2-second response time for dynamic schedule adjustments, ensuring conflict-free timetable management.

## CERTIFICATIONS & ACHIEVEMENTS

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- Microsoft Certified: Azure AI Engineer Associate
- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- AI Agents Fundamentals, Hugging Face