

Sindhuja Ravikanth

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EXECUTIVE SUMMARY

Software developer with 3.5+ years of experience in designing and delivering high-performance, scalable software solutions. Proficient in Java, Python, JavaScript, MySQL and Unix, with a strong ability to optimize systems, enhance user experiences, and tackle complex technical challenges. Capable of full-stack development, automation, and performance tuning, with a track record of driving innovation and efficiency in fast-paced environments.

EDUCATION

Marist University, Poughkeepsie, NY

Master of Science in Computer Science

August 2023 – May 2025

GPA: 3.77/4.0

Coursework: Advanced Data Structures & Algorithms, Networking, Cloud Computing, Data Mining & Predictive Analysis, Parallel Processing, Software Design & Development, Security Algorithms & Protocols

Keshav Memorial Institute of Technology, Hyderabad, India

Bachelor of Technology in Computer Science and Engineering

July 2018 – July 2022

GPA: 7.69/10

Coursework: DBMS, Network Security, Python Programming, Data Science, Machine Learning, C, C++, Operating Systems, and Java

CAREER EXPERIENCE

Research Assistant | Marist University | Poughkeepsie, NY

December 2023 – May 2025

- Identified security anomalies in 2M+ dark web URLs using web scraping, enhancing threat detection algorithms for cybersecurity projects.
- Boosted political alignment prediction accuracy to 85% by analyzing 50,000+ social media posts using NLP and Large Language Models (LLMs) for sentiment analysis in collaboration with Marist Poll.

Software Developer Intern | TCPWave | Poughkeepsie, NY

May 2024 – August 2024

- Reduced UI load time by 40% by engineering a responsive Drupal theme using Bootstrap and resolving 20+ SCSS bugs.
- Increased content migration speed by 35% by optimizing 50+ digital assets and implementing an efficient Drupal interface migration strategy.
- Achieved 96% pass rate in system testing by resolving DHCP Ping Poller and Workflow issues across 150+ test scenarios.

Software Developer | TCPWave | Hyderabad, India

April 2022 – July 2023

- Delivered 99.9% uptime for 5,000+ daily users by designing robust Java and MySQL-based backend systems under Agile methodology.
- Handled over 1,000 API requests per day by designing and optimizing 15+ RESTful APIs used across third-party tools like Postman and Node.js.
- Boosted operational efficiency by 20% by automating internal workflows with user-level approval mechanisms.
- Improved network visibility by 70% by engineering IP-to-identity reporting via Microsoft Active Directory for 1,000+ users.
- Increased engineering team output by 35% by mentoring 3 interns in debugging, software engineering principles, and best practices.
- Enhanced alert delivery speed by implementing a multi-channel alerting system (Teams, Telegram, email), reducing downtime response latency.
- Streamlined terminal interactions by building CLIs for frequent dev/admin tasks, improving productivity across teams.
- Ensured code quality using CI/CD pipelines and tools like Jenkins, Git, Docker, and SonarQube.
- Improved public web presence and user engagement as measured by a 40% increase in daily page views by developing and maintaining the company website using JSP, HTML, CSS, and JavaScript.

Software Developer Intern | TCPWave | Hyderabad, India

October 2021 – April 2022

- Increased DDI visibility by 65% through adaptive dashboards with advanced visualizations, streamlining real-time system monitoring.
- Resolved 100+ dev tickets by debugging production code and deploying rapid enhancements, shortening release cycles.

SKILLS

Software Development: Java, Python, JavaScript, HTML, CSS, C++, PHP, C, Node.js, Processing

Databases & Cloud: MySQL, SQL, Oracle, RDBMS, MongoDB, AWS, Azure, Microservices

Frameworks & Libraries: Spring, Spring Boot, React, Angular, jQuery, Bootstrap, Drupal, Ajax, REST APIs, APIs, SOA, RESTful Web Services

Tools & Technologies: Git, SonarQube, Jenkins, Docker, CI/CD, Linux, Networking, Gradle, Machine Learning, JSON, XML, UNIX Shell Scripting

Others: Agile, Algorithms, OOPS, Performance tuning, J2EE, JDBC, Junit, Log4j, Maven, Spring MVC, Waterfall, SVN, Servlets, WebSphere, Tomcat

PROJECTS

- AI-Powered Tourist Recommendation System:** Accomplished personalized user engagement as measured by increased user interaction rates by architecting a decision tree-based recommendation system using Python and integrating SQL data retrieval for dynamic content. **Technologies:** Python, OpenAI API, HTML, Bootstrap.
- Farmer's Portal:** Accomplished secure user account management as measured by a 100% successful login rate by designing and implementing a robust database schema in MySQL along with a secure login mechanism. **Technologies:** HTML, CSS, JavaScript, MySQL.
- The Lion Cub's Journey:** Created an interactive game where players navigate a lion cub to its cave while avoiding predators, incorporating mechanics like hiding and resource consumption to enhance engagement. **Technologies:** Processing.
- Dutchess County Bus Transportation System:** Accomplished improved operational efficiency as measured by a 40% reduction in scheduling errors by building a reliable scheduling and ticket booking system that leveraged optimized SQL queries for real-time data retrieval. **Technologies:** Python, MySQL.

CERTIFICATIONS

Social Networks (Elite Silver – NPTEL)

Introduction to Research (Elite – NPTEL)

Data Science for Engineers (Elite – NPTEL)

C-Language (NPTEL)

Real-Time Systems (Elite – NPTEL)