

# Sriman Reddy Pingili

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## SUMMARY

Results-oriented Full Stack Software Developer with over 3 years of experience in architecting, implementing, and optimizing large-scale, high-performance systems. Expertise in SDLC, database management, and algorithm optimization, along with proven experience in developing microservices and cloud solutions. Notable achievements include designing event-driven microservices that handle 100k+ daily events, significantly enhancing backend performance. Committed to utilizing cutting-edge technology to create impactful and intelligent business solutions.

## WORK EXPERIENCE

Capital One

Aug. 2024 - Present

Software Engineer Intern

Buffalo, NY

- Developed RESTful and gRPC-based APIs with Java and Spring Boot, improving data retrieval latency by 25% across customer-facing microservices.
- Automated CI/CD pipelines using Jenkins and Docker on Kubernetes, cutting deployment times by 40% while maintaining SOC2 and PCI compliance.
- Built scalable real-time data processing pipelines on GCP with Pub/Sub and BigQuery, enabling analytics on 10M+ transactions.
- Designed responsive React dashboards to visualize predictive ML model insights, increasing stakeholder decision accuracy by 90%.
- Integrated Prometheus and Grafana for cloud monitoring, improving system observability and cutting incident response times by 35%.
  - Technologies:** Java; Spring Boot; gRPC; React; Node.js; GCP; Jenkins; Docker; Kubernetes; Prometheus; Grafana; SQL; Agile

Mphasis

Apr. 2022 - Jul. 2023

Software Engineer

Bangalore, K.A, India

- Engineered real-time notification and user management services with JWT and OAuth2 in Node.js and React, enhancing system responsiveness by 50%.
- Designed and implemented cloud-native pipelines with AWS Lambda, S3, and DynamoDB, enhancing operational scalability and ensuring HIPAA-compliant data handling.
- Achieved over 95% test coverage utilizing JUnit and Mockito; established ELK Stack and Grafana dashboards for proactive log and metrics monitoring.
- Delivered modular service templates and reusable React components, accelerating the development velocity of the team by 3x.
- Authored and resolved over 100 JIRA tickets through active sprint collaboration, leading to the timely delivery of 15+ high-impact features.
  - Technologies:** Node.js; Java; React.js; AWS (Lambda, S3, RDS, DynamoDB); JWT; JUnit; Mockito; ELK Stack; Grafana; SQL; Agile; Jira

Hexaware Technologies

Jan. 2021 - Mar. 2022

Associate Software Engineer

Bangalore, K.A, India

- Designed and implemented event-driven microservices using Spring Boot and Kafka, reducing latency by 30% for real-time health data ingestion.
- Managed Terraform-based infrastructure as code to provision AWS EC2 and S3 resources, improving deployment consistency and auditability.
- Refactored data access layers with Hibernate and optimized SQL queries, cutting execution time for analytics operations across MySQL clusters by 50%.
- Developed GDPR and HIPAA-compliant data APIs with secure access controls and automated logging, ensuring adherence to regulatory standards.
- Collaborated cross-functionally using Jira to prioritize and resolve 50+ issues, achieving 100% SLA adherence with zero reopened bugs.
  - Technologies:** Java; Spring Boot; Kafka; Hibernate; MySQL; Terraform; AWS (EC2, S3); Docker; OAuth2; SQL; Jira; Agile; GDPR; HIPAA

## EDUCATION

The State University of New York at Buffalo

Dec. 2024

Master of Science in Engineering Science

Buffalo, NY

- Relevant Coursework:** Algorithm Design & Analysis; Data Models & Query Languages; Data Intensive Computing

International Institute of Information Technology (IIIT) Bangalore

Jul. 2023

Integrated Master of Technology in Electronics and Communication Engineering

Bangalore, K.A, India

- Dual Degree with specialization in Artificial Intelligence and Machine Learning
- Relevant Coursework:** Data Structures and Algorithms; Software Production Engineering; Operating Systems; Programming Languages; Database Systems; Computer Networks; Machine Learning; Visual Recognition; Cyber Security

## PROJECTS & OUTSIDE EXPERIENCE

Mercari Price Suggestion Challenge | Python; Scikit-learn; Pandas; Numpy; Matplotlib

- Developed a predictive machine learning model and deployed a Flask-based web application using Python, HTML, and CSS to estimate product prices on Mercari, achieving an RMSLE of 0.45.

Shed Allocation Optimization | Go; Gin; MongoDB; Docker

- Orchestrated the automated solution of locomotive-to-shed mapping, resolving the Shed Allocation problem with multi-criteria constraints, resulting in optimized resource allocation and a 15% increase in locomotive turnaround efficiency.

Fantasy Football Data Analysis Tool | Python; PostgreSQL; Database Design; Data Normalization; Indexing

- Designed a web-based data analysis tool using Python and PostgreSQL to evaluate football player statistics, implementing indexing, database design, and normalization for optimized query performance and enhanced data insights.

### **BookNest Web Application** | React.js; Redux; Node.js; Express.js; MongoDB

- Built a full-stack website from scratch which acts as an online marketplace for buying and selling books. Added session handling capabilities to maintain user state after login, logout, refresh, and browser shutdown.

### **Pintos Operating System** | C; OS; Git; Docker; Advanced System-Level Programming

- Implemented advanced threading, synchronization, priority donation, MLFQS, safe memory access, system calls for Pintos operating system using C, reducing context switch latency by 20%.

## **TECHNOLOGIES**

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- **Programming Languages:** Python; Java; C; C++; JavaScript; TypeScript; HTML; CSS; Go; Bash; SQL
- **Frameworks & Libraries:** Spring Boot; React.js; Node.js; Express.js; MERN
- **Web Development:** React; REST APIs; Web Services; JSON; Frontend; Backend
- **Databases:** PostgreSQL; MySQL; NoSQL; MongoDB; Cassandra; Redis; DynamoDB
- **Cloud:** AWS; GCP; RDS; S3; EC2; Lambda; CloudFormation; IAM; CloudWatch
- **DevOps:** Docker; Kubernetes; Jenkins; Maven; Terraform; Ansible; ELK Stack; CI/CD
- **Tools & Platforms:** Git; GitHub; Bitbucket; JIRA; Postman; Grafana; Prometheus; Confluence
- **Networking Protocols:** HTTP; HTTPS; gRPC; WebSocket; TCP/IP; UDP; FTP; SMTP; DNS; DHCP; SNMP
- **Data Analysis & Machine Learning:** TensorFlow; Keras; PyTorch; NumPy; Pandas; Apache Spark; NLP
- **Software Development:** Apache Kafka; Microservices; large-scale systems; System design; Unit Tests; MVC; Agile; SDLC
- **Other Skills:** Debugging; Performance optimization; Customer Service; Test driven development; Quality Assurance; Test Engineering; Project Management; Troubleshooting; Communication Skills