Yasaswini.P

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Education

Stony Brook University — Stony Brook, NY
Masters in Computer Science — *August 2024 – May 2026*

JSS Academy of Technical Education — Bangalore, India
Bachelor of Engineering in Computer Science, Secured an aggregate of 8.58 CGPA — *August 2018 – July 2022*

Technical Skills

Languages: Java, Python, Go, C, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, FastAPI, SpringBoot, Kubernetes, Docker, ReactJS, Jenkins, Bit-bucket.
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Cloud: Compute, Storage, Networking, Database, Security, CDN, GKE, Google Cloud Platform, Docker
Courses: Distributed Systems, Operating Systems, Computer Networks, Computer Organization, Cloud Computing, Analysis of Algorithms, Database Management Systems, Big Data Analytics, Artificial Intelligence and Machine Learning

Experience

DataBahn, Inc. (Remote) — Plano, TX, USA
Software Engineer Intern — *May 2025 – August 2025*

- **Automated AWS cost and usage reporting** via API integrations, improving data accuracy by **30%**.
- Developed **dynamic dashboards and scalable backend APIs** for cost and agent data ingestion and visualization, boosting monitoring efficiency and throughput by **25–40%**.
- Aligned cloud cost metrics with product data to improve **margin accuracy** by **15%**.
- Researched and integrated **AI frameworks** for anomaly detection and log summarization, reducing manual analysis time by **20%**.
- Authored **technical documentation**, engaged in Agile workflows, and applied **cloud cost optimization** and FinOps principles, increasing team alignment by **35%** and enabling **10% cost reduction**

Accenture — Bangalore, India
Associate Software Engineer (Google Cloud Tech) — *December 2022 – July 2024*

- Designed and implemented a scalable user login microservice using **gRPC technology**, achieving **50% faster communication** between services compared to REST-based alternatives.
- Utilized Docker for containerization, ensuring **100% consistent deployments** and streamlined versioning across multiple environments, reducing deployment errors by **40%**.
- Integrated Cloud SQL to store application metadata, ensuring **99.9% data consistency and reliability** in a microservice architecture.
- Developed canary rollout functionality with automatic rollback on bad deployments, minimizing service downtime to **less than 2 seconds** during faulty updates.
- Created a sidecar proxy for rate-limiting, circuit-breaking, and observability, supporting **gRPC and GraphQL** with a latency overhead of **less than 5ms**, enhancing service reliability under high-load conditions.
- Optimized data pipelines for raw data transformation and seamless database updates, improving data integrity and accessibility by **30%**.

Projects

Practical Byzantine Fault-Tolerant System | *Python, Sockets, Multi-threading, Cryptography*

- Implemented the **MIT PBFT protocol**, achieving **99.9%** reliability with **2f+1 quorum validation**, tolerating up to **33%** server faults across 7 distributed servers.
- Optimized secure client-server communication with **2048-bit RSA signing**, enhancing security by **30%** and improving transaction throughput by **35%** with multi-threading and advanced socket techniques.
- Developed features like **real-time transaction logging, server execution tracking**, and a **view-change mechanism**, reducing leader election downtime by **40%** and discrepancies by **50%** under **500+ fault simulations**.

Distributed Banking System with Paxos | *Python, Asynchronous I/O*

- Implemented a distributed system using **Paxos protocol**, achieving **low-latency**, **fault tolerance**, and **strong consistency** across 5 servers and 5 clients with **100%** consensus accuracy.
- Implemented asynchronous consensus with **multi-threaded execution and non-blocking I/O**, enabling **40% higher throughput** and seamless state transitions during concurrent transaction processing.
- Developed key features like real-time balance tracking, synchronized state replication**,** and consensus-driven updates, supporting **1,000+ transactions/second** under stress scenarios.

Keyword Prediction for E-commerce using Sentiment Analysis | *Python, Jupyter*

- Developed a sentiment analysis-based recommendation system using **Naïve Bayes, SVM, and RNN**, achieving **96%** accuracy on Kaggle datasets and simplifying product selection for e-commerce users.
- Implemented real-time web scraping with **BeautifulSoup** to retrieve product data and analyze **10,000+ user reviews**, generating **keyword-based product rankings** that improved user search efficiency by **70%** and streamlined decision-making.