

PAVANKALYAN NAYAK GUGULOTH

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SUMMARY

Computer Science graduate with 3+ years of professional experience in developing scalable, high-performance applications. Proficient in Java, Spring Boot, and cloud technologies. Expertise in building microservices, distributed systems, and optimizing workflows to enhance performance and reliability.

EXPERIENCE

Software Developer, Benderson Development, USA Mar 2025 - present

- Architected and developed a scalable credit memo system using JavaScript for the UI, RESTful APIs for business logic, and SQL Server for ACID-compliant data management, reducing billing errors by 40% and cutting reconciliation time by 30%.
- Implemented robust error handling, comprehensive logging, and real-time monitoring across the API layer, enabling rapid issue detection and recovery to maintain data integrity and system resilience.

Software Developer, Macmillan, USA Jun 2024 - Aug 2024

- Automated a workflow to publish solution articles from Google Docs to **Freshdesk** using **Spring Boot** and **AWS S3**, reducing manual processing time by **95%** and improving content management workflow.
- Integrated **OpenAI** model into the product for publishing the Knowledge Based tickets from **Asana** portal to Freshdesk chat Help section using **Java** which **boosted user engagement** by **30%**.
- Led a team of four to deliver an intern project in the domain **Future of AI** for the Book Recommender System combining content-based filtering and collaborative filtering to provide recommendations with average number of clicks per user at 73%.

Application Engineer II, Oracle Corp. May 2022 - Aug 2023

- Worked on complete software development lifecycle (SDLC) of HCM Celebrate product right from **requirements gathering, coding, code review, testing, deploying, bug fixing, and code/API documentation**.
Tech/Tools - Java, ADF, Oracle, JavaScript, SQL, PLSQL, JUNIT, Linux, OraReview, VBCS, OCI (Oracle Cloud Infrastructure)
- Developed **PLSQL scripts** for distributing reward points to employees on a monthly basis and worked on an **Explicit Locking Mechanism** (Oracle) for concurrent updates of likes and comments by users. Tech: Oracle, DBMS, Transactions.
- Optimized SQL queries and database performance in Oracle, achieving a **30%** improvement in application performance.
- Resolved **95%** of **production issues** swiftly, enhancing **product reliability** and **customer satisfaction**.

Software Engineer, CGI Inc Sep 2020 - May 2022

- Built high-performance, secure, resilient services with clean, well-documented **RESTful APIs** for the 'Medway' application based on **micro-services architecture** in Java using **SpringBoot** framework containerized with **Docker**.
- Utilizing **Apache Kafka**, developed a data feed solution that feeds into a dashboard, providing management with daily oversight to track order volumes and processing times.
- Implemented automated deployment triggers to staging, streamlining the CICD pipeline process, which increased deployment frequency to staging by **40%** allowing frequent testing and validation in the staging environment.
- Designed relational database **schemas** and **optimized SQL queries** for faster data retrieval.
- Achieved code coverage of **90%** in a TDD environment by writing unit tests using JUNIT5, Mockito.

PROJECTS

- Fault-Tolerant Distributed Key-Value Store (Raft Consensus):** Designed and implemented a robust, fault-tolerant distributed key-value store in GoLang, inspired by Google Spanner. Utilized the Raft algorithm to achieve consensus across nodes, and implemented optimistic concurrency control (OCC), two-phase locking (2PL), and two-phase commits (2PC) for **distributed transaction management**. Tech: **Distributed Systems, Go**.
- Real-Time Chat Application:** Architected and implemented a real-time chat application using socket programming techniques, creating a scalable server-client architecture supporting multiple concurrent connections, and ensuring efficient data transmission and low latency in message delivery. Tech: **C++, Client-Server Model, Network Protocols, Socket programming, TCP/IP Suite, UDP**.
- BrandCollab AI System::** Led a team of three at UBHacks 2023 Hackathon to develop a platform enabling brands and influencers to collaborate effectively. Implemented semantic matching algorithms and a recommendation system to pair influencers with relevant brand opportunities, optimizing engagement. Tech: Java, Python, PostgreSQL, Spring Boot, Semantic Matching.

SKILLS

Programming Languages :	C++, Java, Python, Go
Operating Systems:	Windows, Linux
Database :	MySQL, Oracle, MongoDB, Postgres
Web Technologies:	Spring, Spring Boot, React JS, Redux, RESTful API
Software & Tools:	SonarQube, Mockito, Swagger, Spark, Hadoop, Kubernetes, Docker, Kafka
Project/Version Control/DevOps:	Agile, Scrum, Atlassian Jira, Confluence, Git, CI/CD, Jenkins

EDUCATION

<i>Master of Computer Science, University at Buffalo, Buffalo, NY, USA</i>	August 2023 - December 2024
Coursework: Modern Network Concepts, Analysis of Algorithms, Data Intensive Computing, Data Models and Query Language	
<i>Bachelor of Technology, National Institute of Technology Rourkela, IN</i>	July 2016 - June 2020