SAILESH KUMAR PANDA

Software Engineer

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EXPERIENCE

Software Engineering Intern Jan '26 — Present
MAQ Software Noida

- Built 3+ agentic AI solutions using Copilot Studio, Semantic Kernel, AutoGen, Azure AI Foundry, and Azure AI Search for enterprise automation.
- Deployed AI agents for IT helpdesk, procurement, and sales workflows by integrating Dynamics 365, Microsoft Graph, Power Automate, and Dataverse.
- Developed hybrid RAG systems over enterprise knowledge bases with semantic retrieval and role-based access controls.
- Implemented deployment, monitoring, and security practices using Azure DevOps, Application Insights, and STRIDE to improve release reliability and development efficiency.

Software Engineering Intern May '25 — Jul '25
RWSS, Odisha Remote

- Integrated 5+ payment gateways using Java and Spring Boot microservices for secure transaction processing.
- Built and consumed REST APIs with Spring MVC, Feign, and RestTemplate to connect external services.
- Optimized backend performance via asynchronous processing and thread-pool tuning, improving API response times by over 30%.

EDUCATION

B.Tech in Information Technology (Business Informatics), Indian Institute of Information Technology Allahabad Nov '22 — Present
Prayagraj

TECHNICAL SKILLS

Languages C, C++, Java, JavaScript, Python (Basic), SQL
Web & Backend HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS, MongoDB, MySQL, Spring Boot, REST APIs
Cloud, AI & Enterprise Tools Copilot Studio, Semantic Kernel, AutoGen, Azure AI Foundry & Search, Azure SQL, Docker
Tools & Frameworks Git, GitHub, Azure DevOps, Postman, Redis, Firebase, TensorFlow, Keras, LangChain, OpenCV

PROJECTS

ApexBook Lock-Free Matching Engine (C++20, CMake, GTest, GBenchmark) Link

- Engineered an HFT limit order book in C++20 with ~200ns latency and 100M+ orders/sec throughput.
- Designed a lock-free concurrency model using MPSC/SPSC ring buffers and cache-line alignment to eliminate false sharing and hot-path contention.
- Implemented a zero-allocation Object Pool and O(1) intrusive doubly-linked cancellations to avoid OS heap fragmentation during trading.

Log Anomaly Detection Framework (RAG, Isolation Forest, LLMs) Link

- Engineered a self-supervised log anomaly detection system integrating RAG with large language models to analyze system logs.
- Applied Isolation Forest to cluster 1M+ log entries, improving anomaly detection accuracy by 17% and cutting manual triage time by 40%.
- Designed a scalable pipeline to process 5M+ logs per day with modular components enabling sub-15-minute deployment.

ACHIEVEMENTS

Selected for AMAZON ML Summer School 2024 out of 10,000+ participants.

Secured All India Rank 5571 in JEE Mains 2022.

Secured contest ranks 322, 697, 749 in LeetCode contests with a peak rating of 2025 (Knight) LeetCode Profile.

VOLUNTEERING

Volunteer, Taught math and science to 200+ children in Prayagraj. Prayagraj

POSITIONS OF RESPONSIBILITY

- Coordinated logistics for 20+ football matches at the Inter-IIIT Sports Meet 2024 (IIIT Allahabad), ensuring timely scheduling and resource allocation.