AJAY KUMAR

Bengaluru, India

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SUMMARY

Backend Engineer with 3+ years of experience in distributed systems and cloud-native solutions, with expertise in building high-performance APIs, optimizing databases, and designing fault-tolerant microservices. Proven track record of solving complex infrastructure challenges using Java, Spring Boot, and AWS. Passionate about system efficiency, automation, and scalable architecture.

EXPERIENCE

Palo Alto Networks, Inc.

Aug 2022 - Present

Staff Software Engineer

Bengaluru, India

- Performance Optimization: Implemented dynamic memory allocation algorithms in Python and Java, reducing OOM errors by 80% across 10K+ edge devices
- Fault Tolerance: Architected a tunnel management system using Python and C, enabling automated failover for critical infrastructure (reduced downtime by 40%).
- Device Registration Automation: Streamlined the registration of 10K+ devices to the license server, reducing manual effort by 60% and improving compliance through API-driven automation.

Amazon India Pvt. Ltd.

Jan 2022 – Jun 2022

SDE Intern

Bengaluru, India

- Real-Time Alert System: AWS Lambda functions to process CloudWatch metrics, triggering alerts for 50+ SKU error
- Data Visualization Pipeline: Built ETL workflow using Kinesis Firehose and QuickSight, reducing report generation time by 20%
- Operational Dashboards: Developed SQL queries to track system health metrics, used daily by 15+ operations team members.

MAQ Software

Mar 2021 - Dec 2021

Associate Software Engineer

Mumbai, India

- Power BI System Migration: Converted 10+ Tableau dashboards to Power BI using optimized SQL queries, reducing
- Client Reporting: Created dynamic Power BI templates used by Fortune 500 clients for supply chain analytics.
- Query Optimization: Reduced stored procedure execution time by 35% through index tuning and query plan analysis for Azure Synapse Migration Project

EDUCATION

B. Tech in Computer Science and Engineering

Jul 2018 - Jun 2022

Lovely Professional University - LPU, Punjab, India

GPA: 8.04/10

XII with PCM

Jul 2016 - Jun 2017

Jawahar Navodaya Vidyalaya, UP, India

Percentage: 92.2%

SKILLS

Java, Spring Boot, Python, C++, HTML/CSS/JavaScript, MySQL, MongoDB, AWS (EC2, S3, Lambda, CloudWatch), Docker, Microservices Architecture, RESTful APIs, OOPs principles, Distributed Systems, Git, CI/CD pipelines