

NAVIN PALANIKUMAR

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Summary

Results-driven Backend Software Engineer with over 2.5 years of experience in designing and developing scalable, high-performance applications. Strong expertise in Java, Spring Boot, Python, Ruby on Rails, AWS, and Kubernetes. Proven ability to optimize application performance, enhance reliability, and integrate cloud solutions. Passionate about developing robust backend solutions and improving system efficiency.

Skills

Programming Languages: Java, Python, Ruby on Rails

Frameworks & Technologies: Spring Boot, Hibernate, JPA, REST APIs, OAuth, JMS, Kafka

Databases: PostgreSQL, MySQL, DynamoDB

Cloud & DevOps: AWS (Lambda, EC2, S3, CloudWatch, SNS, EKS), Terraform, Kubernetes

Messaging & Streaming: Apache Kafka, Kafka Streams, Kafka Connect

Microservices & Architecture: Service-Oriented Architecture (SOA), Event-Driven Architecture

Version Control & CI/CD: Git, Jenkins, GitHub Actions

Testing & Monitoring: Pytest, JUnit, Signoz, Prometheus, Grafana

Experience

Software Engineer - I

06/2024 to Current

Chennai, IN

FourKites

- Developed and maintained backend components for **scalable, high-performance systems**.
- Designed and implemented robust **RESTful APIs** using **Java (Spring Boot)**, ensuring seamless integration with front-end and third-party services.
- Optimized database queries and implemented caching mechanisms, **reducing API response times by 40%**.
- Developed and enhanced **ORM-based** data access layers using Hibernate and JPA, ensuring efficient database interactions.
- Contributed to system scalability by leveraging **AWS services like Lambda, DynamoDB, and S3**.
- Designed and implemented **Kafka-based event-driven architectures**, ensuring reliable and scalable data streaming across microservices.
- Implemented Kafka topic partitioning strategies to optimize data distribution, and enhance fault tolerance.
- Worked with **PostgreSQL and MySQL** to design efficient schema structures and optimize query performance.
- Implemented **AWS CloudWatch and SNS-based alerting mechanisms** for real-time system monitoring.
- Participated in **code reviews, debugging, and performance tuning**, improving application maintainability and performance.

Software Engineering Intern

07/2023 to 06/2024

Chennai, IN

FourKites

- Assisted in developing and debugging backend systems using **Java and Spring Boot and Ruby on Rails**
- Designed efficient database schemas and optimized queries for **PostgreSQL, MySQL, and NoSQL** databases.
- Developed **unit and integration tests** using **JUnit, Pytest, and Mockito**, ensuring code reliability.
- Implemented a **ChatBot for alerting**, significantly reducing operational costs.
- Gained hands-on experience in writing **clean, efficient, and maintainable RESTful APIs**.
- Automated repetitive tasks by developing multiple **Python scripts**, improving efficiency.
- Reduced **30% of bugs** during the internship through rigorous debugging and testing.

Education

Bachelor of Computer Science & Engineering

04/2024

Sri Krishna College Of Engineering And Technology

Coimbatore

Projects

Built an **AI-powered test case generator** for Jira, **implemented real-time event streaming** with Kafka for seamless data processing, and developed a **cost-efficient alerting ChatBot**.

Developed an **MCP Server using Claude**, reducing demo scenario preparation time from 2 days to under 1 minute