Piyush Kumar

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✄ GeeksforGeeks   ⓞ GIthub

PROFESSIONAL EXPERIENCE

Software Engineer Associate

Airbus

06/2024 – present | Bengaluru

Ongoing Project: Supply Chain Document Monitoring System *Technologies: Java, Spring Boot, AWS, Terraform, React.js*

- Currently developing a scalable system for **Airbus Supply Chain Management** to monitor and manage high-level documents efficiently.
- Building and maintaining **RESTful APIs** using **Java Spring Boot** to enable secure and reliable backend services.
- Implementing **authorization and role-based access control** to protect sensitive supply chain data.
- Setting up and managing **AWS API Gateway** for routing and securing API requests.
- Using **Terraform** to automate infrastructure deployment and ensure consistent environments across development and production.

Project: Performance Optimization and Feature Development in Web Application *Technologies: Next.js, React, Node.js*

- Built new **backend APIs** to support additional functionalities and seamless data integration.
- Migrated majority of existing components and pages to **Server-Side Rendering (SSR)**, significantly improving load times.
- Achieved a **63% performance boost** in the production application by optimizing rendering strategy and reducing client-side load.
- Developed and enhanced **UI features** using **Next.js** to improve user experience and simplify navigation across the application.

Softwere developer Intern

Statcon Electronics

01/2023 – 07/2023

- Developed backend services to **collect data from hardware devices** and **transmit it to the PCU unit** for real-time display and analysis.
- Ensured **reliable data flow** and optimized performance for accurate system monitoring.

EDUCATION

Bachelor of Technology(Electrical Engineering)

Punjab engineering College

12/2020 – 05/2024 | Chandigarh, India

CGPA-7.54

Class 12

Shishu Niketan Senior Secondary School

04/2019 – 05/2020 | Chandigarh, India

Class 12 **(Boards)** from CBSE board.

Score-90.2%

PROJECTS

E-commerce Backend Microservices Architecture

Java, Springboot, Docker, microservices, Prometheus

- Developed a complete **microservices-based backend** for an e-commerce platform using **Spring Boot**.
- Built services for **inventory, orders, products, and notifications** with seamless **inter-service communication**.
- Implemented **service discovery** with **Eureka**, secured APIs, and set up a centralized **API Gateway**.
- Integrated **Resilience4j** for circuit breaking and **distributed tracing** for monitoring service health and performance.

Cryptofy

React.js, Material UI, MongoDB, Express, CoinGecko API

- Built a user-friendly crypto app with real-time data, coin profiles, charts, and currency conversion.
- Used **React.js** and **Material UI** for UI; powered backend with **Express** and **MongoDB** for efficient performance.

SKILLS

Languages & Frameworks:

Java, Spring Boot, JavaScript, TypeScript, React.js, Next.js, Node.js, Express.js

Frontend Technologies:

React.js, Next.js, Material UI, HTML5, CSS3, Tailwind CSS

Backend & API Development:

Spring Boot (Microservices, REST APIs), Express.js, Server-Side Rendering (SSR), API Gateway

Cloud & DevOps:

AWS (API Gateway, EC2, S3), Terraform (IaC), Docker

Database & Data Handling:

MongoDB, SQL, Mongoose and Neo4j

Tools & Others:

Git, Postman, VS Code, IntelliJ, Jira, Bruno

Data Structures and Algorithms (DSA)