ANKIT JHA

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PROFESSIONAL SUMMARY

Highly motivated and detail-oriented **Java Developer** with over **2 years** of experience in designing and developing scalable and efficient **backend applications** across diverse domains such as Banking, E-commerce, and Agriculture. Proficient in Java, Spring Boot, and Microservices-related technologies.

TECHNICAL SKILLS

Programming Languages : Java (Core Java + Advanced Java) | Python | C/C++ Programming.
Frameworks : Spring Boot (Spring Cloud, Spring Security, JWT) | OAuth 2.0 | Flask | Hibernate ORM | Bootstrap | Thymeleaf.
Databases : MySQL (Workbench & Command Line Interface) | PostgreSQL.
Development Tools : Eclipse | IntelliJ | Visual Studio | Git | Redis | Azure DevOps | Bitbucket | Maven | Postman | Draw.io | OpenCV.
Containerization & Messaging : Docker | Apache Kafka | Feign Client | Web Client.
Cloud Platforms : Amazon Web Services (AWS).
Web Technologies : HTML | CSS | RestTemplate | Tailwind CSS.
Expertise Area : Object-Oriented Programming (OOPS) | Microservices Architecture | Development | RESTful Web Services | Agile

PROFESSIONAL EXPERIENCE

JAVA Developer (System's Engineer) - TATA Consultancy Services (TCS), Pune *(Oct 2023 – Present)*

- **Project Name : PNC (Pittsburgh National Corporation Bank)** :

- **Designed and Improved** a scalable user verification system using Spring Boot, enabled **100%** email and mobile number **validation** for end-user information updates on the bank server for more accuracy and **security**.
- **Integrated** OTP generation and validation workflows for both mobile and email using third-party APIs, resulting in a smoother workflow and enhanced user authentication security by over **90%**.
- **Architected** a dual-verification **mechanism** that temporarily store and retrieve OTPs by leveraging **Redis** in-memory caching, reducing OTP **verification** latency by up to **65%**, ensuring **100%** data integrity before database persistence.
- **Optimized** the weekly statement page by reducing API response time by **30%** through the implementation of pagination, utilized microservices and **Design Patterns** to build **modular** applications and enhance performance.
- **Performed** end-to-end testing and debugging of APIs locally with **Postman**, and validated API builds across multiple data centers and **environments**, Improving deployment success rate by **15%** through effective CI/CD pipeline execution and early **defect** identification.
- **Leveraged** Hibernate ORM and Spring Boot JPA for efficient **data handling** and **entity management**, resulting in a **20%** reduction the query execution time and **enhance** database performance .

- **Project Name : BASF (Baden Aniline and Soda Factory) – Digital Farming** (Xarvio.com) :

- **Working on** Xarvio.com digital farming platform for **European** markets, Resolve the critical bugs and enhance user experience. Automate key features based on user behavior patterns, Improving overall **usability** and performance.

Backend Developer Intern - Tann Mann foundation *(Nov 2022 – Apr 2023)*

- **Gained experience** in creating RESTful APIs using Spring Boot and established **integration** with **database** to ensure efficient data **retrieval** and storage operations, utilizing **Hibernate** ORM for **annotation-**based data validation.
- **Collaborated** with frontend developers to define **API specification** and ensured seamless integration between both frontend and backend systems which reduces the chances of errors by **50%**.
- **Utilized version control systems** git for efficient code management and collaboration with **cross-functional** team.
- **Technologies used** : Java, Spring Boot, MySQL, RESTful APIs, Postman, Git/GitHub.

Cyber Security Intern - CISCO *(Nov 2021 - Jan 2022)*

- **Gained hands-on experience** with **Cisco Packet Tracer** for understanding of core **cybersecurity** principles.
- **Collaborated** with a team of interns to analyze and **troubleshoot** network issues using different models.
- **Technology used** : Python | CISCO Packet tracer.

PROJECTS

Online Shopping Cart :

- Developed a web application using Java, **Spring Boot**, and **Thymeleaf**, enabling users to browse products, add them to a cart, check-out, and manage orders, with features like user authentication and "**remember me functionality** ".
- Designed RESTful APIs for seamless integration with the front-end application, utilizing MySQL/PostgreSQL to store and manage products, orders, and user information.
- Introduced session-based **authentication** using Spring security and used **OAuth2.0** for GitHub and Google login.
- Demo - https://github.com/ankit3438/e_shopping_site

Quick-Bill-QR (QR- Billing Application) :

- Developed an application to generate **QR codes** for items and **streamline** the billing process using Python.
- Devised and optimized features to generate **receipts** for purchased items and efficiently store product details in the database, ensuring seamless **processing** and performing change in data.
- Integrated OpenCV for enhanced QR code **recognition** and data retrieval from database.
- Technologies Used: **Python, SQL, Tkinter, MySQL Workbench, OpenCV.**
- Demo - https://github.com/ankit3438/QR-code-billing-system

EDUCATION

Bachelor of Technology (B-Tech) with First Division and Distinction *(2019 – 2023)*
ABES Engineering College , Ghaziabad (Dr. APJ Abdul Kalam Technical University, Lucknow, Uttar Pradesh)

RESEARCH WORK AND CERTIFICATION

- Published a **patent** application on "**Vocalizer For Mute People**" Application No.: **202211076572 - (2023).**
- "**Advanced Java Backend Development Program**" – TCS Internal Certification - **(2023).**
- "**Certified Spring Boot Professional**" – Udemy - **(2024).**
- "**Microservices Architecture Specialist Training**" – TCS Internal Certification - **(2024).**