AYUSH SINGHAL

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SUMMARY

Software Engineer with almost **3 years** of experience in backend development, specializing in **Spring Boot (Java)** based microservices, distributed systems, and scalable architectures. Led multiple system migrations, performance optimizations, and API integrations, impacting millions of users. Passionate about building scalable, efficient, and resilient applications.

EDUCATION

Birla Institute of Technology and Science, Pilani, India,   Aug. 2017 – May. 2022
B.E. (Hons.), Mechanical Engineering and M.Sc. Chemistry

SKILLS

Languages	Java, C#, Python, SQL (PostgreSQL)
Technologies	Spring Boot, RabbitMQ, ElasticSearch, Redis, MongoDB, Docker, JUnit, Mockito
Developer Tools	Git, VS Code, Visual Studio, IntelliJ, Microsoft Azure

EXPERIENCE

Software Engineer 2   Oct 2024 – Present
Everwell Health Solutions Pvt. Ltd

- Led the migration of the Direct Benefit Transfer (DBT) module from a monolithic architecture to microservices, integrating **JobRunr** for job scheduling. Improved job execution efficiency by **80%**, ensuring timely payments for around **50K** users daily. This supported beneficiary payments within Ni-kshay, India's national TB platform, aiding **90M** patients and healthcare staff, and facilitating the disbursement of over **451M USD**.
- Integrated **MongoDB** into the diagnostics module, configuring replica sets for high availability and reliability. Implemented transactional management between **PostgreSQL** and **MongoDB** to ensure data consistency across multiple data sources.
- Implemented an efficient logging mechanism using **Azure** Application Insights, enhancing debugging capabilities while minimizing the load on the primary database by externalizing logs for real-time monitoring and analytics.

Software Engineer 1   June 2022 – Sept 2024
Everwell Health Solutions Pvt. Ltd

- Led the integration of the MERM module with external vendors through a data gateway application using **Netflix Zuul**, implementing dynamic routing and monitoring to streamline API request/response workflows, significantly improving efficiency.
- Integrated **RabbitMQ** for asynchronous messaging, achieving up to **99%** reduction in call-based workflow errors and enhancing system reliability.

Software Developer Intern   July 2021 – Dec 2021
Everwell Health Solutions Pvt. Ltd

- Developed **400+** unit tests for a C# Web Application, resulting in a **35%** increase in code coverage, improving overall software reliability and reducing potential bugs.
- Optimized existing .Net APIs by refining LINQ queries, enhancing system responsiveness.

ACHIEVEMENTS

- Optimized the cost of data center by eliminating the .NET and SQL server dependency and switched to Java Microservice Architecture.
- Received multiple value awards for unwavering dedication to users, and timely project completion.