Sourav Verma

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SUMMARY

Backend Engineer with 1 year of professional experience in Java and Spring Boot, and a B.Eng. (Hons) in Software Engineering from Edinburgh Napier University. Experienced in developing and scaling RESTful APIs and distributed systems, with an emphasis on security, resilience, and availability. Skilled in secure authentication and authorization (JWT, OAuth2), database optimization, and deployment automation utilizing Docker and CI/CD pipelines. Capable of working in Agile cross-functional teams with product managers, mobile developers, and QA specialists to produce user-centric solutions. Strong problem solver, versatile, and passionate about using technology to develop meaningful financial and digital solutions.

SKILLS

- **Programming Languages:** Java (Core Java including Multithreading, Collections, Generics, JDBC, I/O, Streams, RESTFUL APIs, Spring Boot), Python, C, C++, C#, HTML, CSS, JavaScript, SQL, Node.js.
- **Frameworks & Tools:** Spring Boot, Java Swing, Software Development Life Cycle (**SDLC**) , WPF, Agile (Scrum, Kanban), Junit, Docker, Maven, Gradle, Git, Power BI.
- **Databases:** MySQL, Firebase, SQL Server, MongoDB.
- **Cloud Platforms:** Azure (App Services, Azure Functions, Data Factory, Logic Apps, Service Bus, Event Hub)
- **Testing & CI/CD:** Unit testing, JUnit, Jest, Cypress, Debugging code, GitHub Actions, Continuous Integration/Deployment.
- **Soft Skills:** Problem Solving, Analytical Thinking, Attention to Detail, Collaboration & Teamwork, Effective Communication, Time Management, Adaptability, Stakeholder Management.

PROFESSIONAL EXPERIENCE

Software Engineer Intern (3-Month Internship)
Hamden Technology Ltd – UK | Sept 2025 – Present

- Supporting the development of **backend services using Node.js** and integrating them with **MongoDB** for scalable data handling.
- Assisting in the design and testing of **RESTful APIs** to connect backend services with web and mobile applications.
- Gaining hands-on exposure to **Flutter** for building cross-platform mobile app interfaces and integrating frontend with backend APIs.
- Participating in **Agile workflows**, contributing to sprint updates, task tracking, and progress reporting.
- Strengthening collaboration skills by working with developers across frontend, backend, and business analysis tasks.
- Write reliable, maintainable, and well-tested code.

Backend Engineer (Java) - Remote
App Era Technologies – Noida, India   *November 2024 – July 2025*

- Designed and implemented **secure, stable, and scalable backend services** using **Java and Spring Boot** to create RESTful APIs with high availability and dependability, applying **technical troubleshooting** across the complete **Software Development Life Cycle**.
- **JWT and OAuth2** secure authentication and authorization channels **were implemented**, enhancing data security and adhering to regulations.
- Collaborated with **upstream and downstream systems** to optimize **MySQL and MongoDB** queries and implement indexing strategies, while ensuring data integrity across **large-scale corporate applications**.
- **Docker-based** containerized, Kubernetes for orchestration and deployed services that support **CI/CD pipelines** with **GitHub Actions** for automated deployment and testing.
- Worked with a group of backend, mobile, and quality assurance engineers in an **Agile/Scrum team** to deliver features and bug fixes every two weeks in line with the product strategy.
- **JUnit unit testing** was used to guarantee production stability.

Software Engineer Intern
Edinburgh Napier University – Edinburgh, UK   *Jan 2023 – May 2023*

- Designed and developed **an AI-powered supply chain management system using Java, JADE (agent-based framework), and MySQL**.

- Engineered **intelligent agents to match customers with optimal suppliers and pricing**, streamlining procurement and improving efficiency .
- Optimized **SQL queries for large-scale supplier and customer data**, boosting database performance. Built an interactive desktop GUI using Java Swing, tested across multiple use cases to ensure usability.
- Authored and executed **JUnit test cases** to validate application logic and data integrity.

PROJECTS

 Fitness Application | Tools: Java, Firebase, Github Actions, Android Studio
- Developed the backend for an **Android-based fitness application** using **Firebase**, enabling **real-time data storage and user authentication**. Implemented **core features** including **user profile creation, customizable workout plans, and tracking of sets, reps, and weights** for various gym routines.
- Supported dynamic workout customization, allowing users to select from multiple workout types and personalize their fitness goals; **Deployed CI/CD pipelines via GitHub Actions**, reducing deployment time and **minimizing release errors by 20%.** Contributed to a successful early launch with **200+ test users**, ensuring seamless backend performance and scalability during peak usage.

Napier Bank Messaging Platform | Tools: C#, Visual Studio, WPF
- Developed a secure, real-time messaging platform for internal bank communications, integrating support for email and network-based message channels.
- Designed and implemented message scanning logic to detect and flag messages based on a predefined list of security criteria, enhancing compliance and monitoring; Built and stress-tested the system with over 500 simulated users, ensuring message encryption and data integrity under load with 100% reliability.
- Identified and patched critical security vulnerabilities during development, leading to a 30% reduction in reported bugs and improving overall platform stability. Handled over 100 distinct message scenarios, implementing parsing and validation mechanisms to maintain system performance and accuracy.

EDUCATION

B.Eng. in Software Engineering (Hons)
Edinburgh Napier University – Edinburgh, UK   *Sept 2021 – May 2024*
Certifications
- **Master Spring Boot 3 & Spring Framework 6 with Java**
  *Udemy (***Certificate number:** UC-97970b0d-1d72-4e50-ad69-6f5093af1ac2)
- **Microsoft Azure: From Zero to Hero - The Complete Guide**
  *Udemy(***Certificate number:** UC-a680c79e-ff7d-49c6-a227-4cf599442fb1)