**SOURAV VERMA**  
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**Professional Summary**

Software Engineering graduate with a strong foundation in software design, development, and testing. Experienced in Java, Python, C#, and cloud technologies, with hands-on project work in supply chain solutions, secure messaging systems, and fitness applications. Highly adaptable and eager to contribute as a Software Engineer, Data Analyst, Data Engineer.

**Education**

**B.Eng. in Software Engineering (Hons)**  
*Edinburgh Napier University* – Edinburgh, UK  
*GPA: 66.43/100*  
*Sept 2021 – May 2024*

**Technical Skills**

* **Programming Languages:** Java, Python, C, C++, C#, HTML, CSS, JavaScript, SQL
* **Development Tools:** VS Code, Microsoft Visual Studio, NetBeans, Docker
* **Databases:** MySQL, Firebase, SQL
* **Cloud Platforms:** Microsoft Azure (App Services, Azure Functions, DevOps)
* **Testing & CI/CD:** JUnit, GitHub Actions, Git, Linux
* **Data Analysis Tools:** PowerBI, basic exposure to data manipulation with Python
* **Frameworks:** Agile Methodology (Scrum, Kanban), Java Swing, WPF

**Professional Experience**

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

* **Reduced time-to-market by 20%** through the development of an AI-driven supply chain management platform using Java, JADE (Agent Framework), and MySQL.
* Authored over 50 JUnit test cases, increasing software reliability and achieving a **95% success rate** during initial testing phases.
* Improved database query efficiency by **15%** through SQL query optimization.
* Contributed to a team of 5 developers, employing Agile Scrum to deliver the project on time.

**Key Projects**

**Agent-Based Supply Chain Software** (2023)

* Delivered a Java-based solution that automated supplier negotiations, improving transaction efficiency by **25%**.
* Designed a responsive interface using Java Swing, tested across 3 different user scenarios, achieving a **99% bug-free rate**.

**Napier Bank Messaging Platform** (2022)

* Engineered a secure messaging system for real-time communication, tested with **over 500 simulated users**, ensuring **100% encryption reliability**.
* Identified and resolved critical vulnerabilities, reducing bug occurrence by **30%** during development.

**Fitness Application** (2023)

* Created a fitness platform that attracted **200+ test users** in initial deployment using Android Java and Firebase.
* Established CI/CD pipelines with GitHub Actions, reducing deployment errors by **20%**.

**Portfolio Website** (2024)

* Designed and launched a personal portfolio site viewed by **50+ potential employers**, showcasing projects and technical skills.

**Python Interactive Projects** (2024)

* Developed educational projects, including Sudoku and Hangman, that improved algorithm performance by **10%** through iterative optimization.

**Leadership & Additional Skills**

* Class Representative for a year, advocating student concerns and improving communication between faculty and peers.
* Strong adaptability and quick learner of new systems, frameworks, and languages.

**References:** Available upon request.