

Tanmay Singh

📍 Varanasi UP 🌐 [MyPortfolio](#) [🔗](#)

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Education

SHUATS (Allahabad Agriculture Institute)

B.Tech Computer Science and Engineering) (**GPA: 7.93 / 10**)

06/2020 - 05/2024

Prayagraj, UP

St John's School (ICSE and ISC)

High School and Intermediate (10+2) (**Percentage: 81%, 74.2**)

April 2016 – Sep 2019

Varanasi, UP

Experience

Simplify3x Software Private Limited

Associate Software Engineer

Sept 2024 - Present

📍 Bangalore, India

- Project Title: **HireX**
- Developed a scalable e-commerce platform using Java, Spring Boot, and Hibernate, enabling customers to browse and purchase products seamlessly.
- Developed RESTful APIs for seamless communication between microservices, ensuring efficient data exchange.
- Implemented API gateway for routing and centralized monitoring, and used Spring Cloud for service discovery and load balancing.
- Conducted unit and integration testing with JUnit and Mockito.

IIT BHU

Research Intern

05/2022 - 08/2022

📍 Varanasi, India

- Project Title: **CU-BEMS, smart building energy**
- Tech Stacks: **Python, Machine Learning, Deep Learning, LSTM, Keras, TensorFlow**
- Developed a **time-series** forecasting solution for a 7-story building, using second-by-second data from IoT devices monitoring electricity, temperature, humidity, and other environmental factors. Preprocessed data with **Min-Max scaling**, then applied a Sequential **LSTM model with ReLU** activation and integrated **ARIMA** to capture seasonal trends. Leveraged advanced time-series analysis techniques for precise forecasting and applied **K-fold cross-validation** to ensure model reliability. This approach enables accurate predictions for efficient building management and environmental insights.

PERSONAL PROJECTS

Read Renting 🔄 | **SpringBoot, React.js, MySQL.**

- Built an interactive e-commerce website using React for a dynamic frontend and Spring Boot for efficient backend operations.
- Integrated Okta for secure login and Spring Security for access control, ensuring a secure user experience.
- Leveraged Spring JPA with MySQL to store and manage user data and book inventory, enabling fast data retrieval and scalability.
- Enabled CRUD operations on book listings and user profiles, allowing seamless updates and data consistency across the platform.

Technical Skills

Languages: Java, Python, C++.

Technologies: SpringBoot, Jasper, SpringCloud, JSP, MongoDB, React.js, SQL, SpringAI.

Tools: Git, GitHub, VS Code, Postman.

Soft Skills: Communication, logical thinking, Problem solving, Teamwork, Time Management.

Achievements

HackerRank **5 Star** Coder.

Our project came **First** in Project Exhibition College event **Xpressions** in May 2023.

Secured **AIR 2883** in **GFG**(World Leaderboard) in 2023.

Secured **1st position** in 10th Board Examination among 150+ students in my School 2017.