Ritit Bansal

Software Engineer | Backend Developer | Python Developer | Right to work in the UK
(+44) 7405432570 | Barmeston Road, SE6 3BJ | ritik.bansal250198@gmail.com | Linkedin

Professional Summary

Experienced Software Engineer specializing in backend development, Machine Learning, and Artificial Intelligence. Proven track record in designing and implementing scalable RESTful APIs to drive team success. Skilled in optimizing backend systems for performance, reliability, scalability, and delivering efficient and robust solutions.

Academic Profile

Degree	Institute Name	Year Of Passing	CGPA/%
MS (CS)	Queen Mary University, London, England	2023 - 2024	Distinction
B-Tech	Maulana Azad National Institute of Technology, Bhopal	2017 - 2021	86%
HSC	St Paul Convent Se. Sr. School, Ujjain	2019 - 2020	82%

Core Competencies

- **Software Development**
- **Scalability & Testing**
- **Microservice Designing**
- **Web Services**
- **Restful APIs**
- **Debugging**
- **Agile Methodologies**
- **Machine Learning**
- **CI/CD/Deployments**
- **System Designing**
- **Security**
- **Networking**

Academic Projects

Weather Forecasting Super-resolution using Bayesian GAN | May 2024 -August 2024
- Improving the precision and reliability of weather forecasts through the utilization of Bayesian GAN in statistical downscaling, which incorporates uncertainty estimates within the model. This advancement enhances the effectiveness of meteorological and weather-related applications for risk evaluation and decision-making.

Sign Language Recognition System | June 2022 - March 2024
- Developed a Sign Language Recognition System using TensorFlow (LSTM), OpenCV, and MediaPipe, identifying facial, hand, and body landmarks for accurate gesture interpretation.
- Implemented real-time video visualization of key points and LSTM neural network forecasting for gesture prediction, offering live interactive feedback for user validation.
- Enhanced communication accessibility, potentially aiding educational tools and communication devices.

Areas of Expertise

Development Technologies: C++ | Python | Java | Java Script | SQL | Database | Cloud Computing | Grails | HTML | Git
Tools and Software: VS Code | CI/CD | IntelliJ | Maven | Gradle | GitHub | Bitbucket | PostgreSQL | Postman | MS Excel
Server Environments: Apache HTTP Server | Microsoft Azure | Apache Tomc | Amazon Web Services | Scrum | Docker
Data Visualisation: Tableau | Power BI | Data Analytics | Matpoltlib | Seaborn | Data Modeling and Design | Zoho | AI
Machine Learning: TensorFlow | PyTorch | Pandas | Numpy | CNNs | NLP | Deep Learning | Neural Networks | Keras
Industry Knowledge: Object-Oriented Programming | Networking | OS | Security | Big Data | DBMS | Frameworks

Professional Experience

Software Engineer | March 2021 - August 2023

ZS Associates | Pune, Maharashtra 411014
- Achieved a 92% bugless project during a critical beta-testing phase; recognized by product development managers for ingenuity and proactiveness.
- Supported the testing of operating systems-level software and filed 294 upgrade and bug fix reports, an improvement from previous years.
- Reduced cycle time from 34 weeks to 7 days and eliminated bottlenecks by streamlining the development process from user stories through code check-in.
- Implemented a Spring Framework-based solution, improving the reliability and scalability of the application and reducing downtime by 70%.
- Designed and implemented a new database schema, resulting in a 40% increase in data retrieval speed and a 50% decrease in data storage.