

AYUSH KUMAR SINGH

Software Engineer

[Portfolio Website](#)

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Education

- **Indian Institute of Technology (BHU), Varanasi** July 2017 - April 2021
B. Tech. in Electronics and Communication Engineering
- **Central Hindu School, Varanasi** 2016
All India Senior School Certificate Examination (Percentage: 89.20%)
- **Central Hindu School, Varanasi** 2014
All India Secondary School Examination (Percentage: 95.00%)

Skills

- Backend: Java, Spring, C/C++, PostgreSQL
- Frontend: JavaScript, jQuery, Bootstrap, HTML, CSS
- Technologies: Visual Studio, Eclipse, TFS, Jenkins, Linux
- Areas of Interest: Data Structures, Algorithms, System Design

Achievements

- Received Applause Award twice for Big Data Processing in Java and Enhancing API Resiliency using Resilience4j from AVP of EdgeVerve.
- Received Stellar Award as a Team for contributing in API enhancements and Zero Downtime Deployment from AVP of EdgeEerve.
- Secured All India Rank of 848 in JEE Mains and 2585 in IIT JEE Advanced - 2017.

Experience

Member of Technical Staff

EdgeVerve (Full-time) Aug 2021 - Present / Bengaluru, India

Report Generator:

- Implemented automated Excel report generation using Java and J2EE technologies.
- Generates millions of error reports in a single day, significantly improving performance.
- Exposure: Java, Excel Sheets, OOPS, Programming, Automation

File Adapters:

- Created Java-based processors for processing Orc and Parquet Format Files for high-speed data processing.
- Enabled processing of data at a speed of 3GB per minute.
- Exposure: Java, J2EE, Spring, PostgreSQL

Circuit Breaker for APIs:

- Enhanced product resiliency by implementing Circuit Breaker for APIs.
- Designed fallback routes for failures, improving performance and reducing latency.
- Exposure: Java, Spring, Apache Camel, Resilience4J

UI Dashboards:

- Designed and developed dynamic dashboard pages using JavaScript, Bootstrap 5, and jQuery Data Tables.
- Served over 1000 small to large-scale customers.
- Exposure: Spring MVC, Java, JavaScript, jQuery

Multi-Tenant Database:

- Devised and executed a system to support the coexistence of multiple customers' data within a single database.
- Merged data from several small-scale customers into a unified database, effectively reducing operational costs and ensuring affordability for clients.
- Exposure: Java, Spring, PostgreSQL

Software Engineer Intern

Mentor Graphics (Intern) Jun 2020 - Aug 2020 / Noida, India

- Devised an algorithm for area report generation before processor fabrication.
- Analyzed the required components in the circuitry.
- Exposure: C/C++, Shell