

# PIYUSH SINGH

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## Education

### Indian Institute of Information Technology, Lucknow

Bachelor of Technology in Computer Science, CGPA: 8.70/ 10.00

April 2019 – May 2023

Lucknow, India

### Sunbeam School, Bhagwanpur (CBSE)

Higher Secondary School, Percentage: 95.6

April 2017 – May 2018

Varanasi, India

### St. John's School, Mahrauli (ICSE)

High School, Percentage: 92

April 2014 – May 2016

Varanasi, India

## Relevant Coursework

- |                    |                       |                        |                         |
|--------------------|-----------------------|------------------------|-------------------------|
| • Data Structures  | • Database Management | • Computer Network     | • Algorithm Analysis    |
| • Operating System | • OOPs                | • Software Development | • Computer Architecture |

## Experience

### ITC Limited

Full Stack Software Developer

Aug 2023 – Present

Bengaluru, India

- **Supply-Chain Management App:** Developed and deployed an Android application for supply chain management with live inventory tracking and efficient order management features, optimizing application performance.  
**Result:** Enhanced inventory visibility, reducing wastage, more efficient order management and greater cost-effectiveness
- **Order Integration Service:** Collaborated closely with cross-functional teams to ensure seamless integration with clients, improving supply chain efficiency and enhancing financial visibility for better customer satisfaction.  
**Result:** Streamlined and ensured secure client onboarding, enhancing order visibility and optimizing stock management.

### Amazon

Software Development Engineer Intern

Jan 2023 – Jun 2023

Bengaluru, India

- **DLQ Visualizer:** Developed a service to automatically categorise a set of failed entities column-wise with a unique key in order to help the developer debug and check for failed entities and the reason for their failure with the column id.  
**Results:** A total of **2500** failed entities were recognized and fixed. It enabled the users to generate failure reports based on different controls to understand the failure point, total impact and identify the owning team.
- **Lambda fix:** Added a logic to divide the entity into batches that could be processed within the allowed limits.  
**Results:** The monthly incoming rate was **50 million**, and **10%** of those entities had processing sizes that were too large. This logic was applied, and the code break was resolved.
- **Null feature analysis:** Developed a practical method to handle the entities that failed due to the null feature.  
**Results:** A total of **4 million** entities were handled efficiently after conducting this analysis. It improved the performance and coverage of ML model and was the basis for deployment of a new statistical model.
- **ML Model Testing:** Implemented integration testing framework for ML model using **JUnit5**, ensuring seamless integration with the existing system. Verified model's compatibility with data pipelines, APIs, and external dependencies.  
**Results:** This testing ensured reliable performance and accurate predictions.

## Projects

### Exam Cell Portal | React, Firebase(NoSQL), NodeJs

- Built a **fully functional** web portal where students can view their grades and submit queries related to exams.
- The administrator has full control over managing the users of the site, as well as managing the students and faculties.
- The administrator can update the top scorers on portal's main page and notice board with the most recent information.

### Real Time Mall Commodity Catalogue | Java, MySQL(RDBMS), Jdbc

- An **entirely working** website portal that offers the user a virtual tour of a shopping center.
- Provides floor wise layout of the mall, along with details about the stores and the services they provide.

## Technical Skills

- |  |   |
|--|---|
| • <b>Languages:</b> C/C++, Java, Python, SQL, JavaScript, PostgreSQL | • <b>Developer Tools:</b> VS Code, IntelliJ, Git/GitHub, PyCharm, BitBucket |
| • <b>Technologies/Frameworks:</b> Linux, Pyspark, Django             | • <b>Tech Stacks:</b> AWS, Spark  |

## Achievements

- Ranked among **top 20%** coders on **Leetcode** (a coding platform).
- Solved over **500 coding problems** on different coding platforms.
- Among the **top 10** teams to pitch a start up idea at **IIT Guwahati** in the **Action Plan** event.
- AWS Certified: **AWS Technical Essentials**, **AWS PartnerCast**