

# Vastav Bishnoi

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## Technical Skills

**Languages:** Java, JavaScript, Python, PHP, C, C++, SQL, React-Native, HTML5

**Technologies:** React.js, Angular, Django, TensorFlow, PyTorch, Flask, Node.js, Android SDK, iOS SDK

**Cloud Technologies:** Microsoft Azure, AWS, Google Cloud

**Databases:** Azure SQL Database, MongoDB, Oracle, MS SQL

**Version Control Tools:** Git, Docker, Kubernetes

**Operating systems:** Windows, Linux/Unix, MacOS

**Concepts:** Compiler, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Agile Methodology, Cloud Computing

## Experience

### Reliance Industries Pvt. Ltd. | Software Engineer Intern

August 2024 – Present

Guide : Ms. Madhura Bhatkar | *Flask, JavaScript, HTML/CSS, and Python, Plotly*

Mumbai, Maharashtra

- Spearheaded the design and implementation of Azure-based CI/CD pipelines automated prediction processes, achieving 96 percent improved efficiency.
- Engineered a web application using **Flask** and **Azure Functions**, to predict **3 years** dataset for enhancing import decision making.

## Projects

### Rule Engine with AST | *Python, Flask, Docker, REST APIs*

- Developed a 3-tier rule engine application using an Abstract Syntax Tree (AST) to dynamically evaluate user eligibility based on attributes such as age, department, income, and experience, improving processing speed by 40 percent.
- Defined a data structure for AST nodes, facilitating efficient rule changes and combinations; implemented API functions for creating and evaluating rules, handling over 500 rule evaluations daily.
- Strengthened resilient error-handling mechanisms, which led to a 95 percent success rate in data retrieval.

### ChatGPT Clone App | *Dart, Flutter, Firebase, REST APIs*

- Launched a scalable chat application with real-time interaction, reducing ticket creation time by 45 percent.
- Conceptualized an efficient microservices framework which bolstered overall system stability, facilitating autonomy in service scalability; this led to a 30 percent decrease in operational downtime and greater satisfaction among end-users.
- Architected a robust application framework that seamlessly supported 4-5 distinct user bases.

### Real-Time Data Processing System for Weather Monitoring | *Python, OpenWeatherMap API, SQL*

- Designed and executed a real-time data processing system to monitor and analyze weather conditions across 6 major Indian metros.
- Retrieved and processed weather data from the OpenWeatherMap API every 5 minutes, converting temperatures from Kelvin to Celsius and aggregating daily summaries (average, maximum, and minimum temperatures) for over 1,000 data points daily.
- Debugged alerting thresholds for critical weather conditions, triggered notifications when limits were breached, which designed to improve user awareness and response time by 50 percent.

## Certifications

### AWS Certified Developer – Associate

September 2024

*Amazon Web Services Training and Certification*

[Link](#)

- Relevant Coursework:** Cloud Architecture, Serverless Computing, CI/CD Automation, Security and Identity Management, Data Management, Application Development, Cost Optimization, Troubleshooting

## Education

### SRM Institute of Science and Technology

June 2025

*Bachelor of Technology in Computer Science (GPA: 8.00/10.00)*

Chennai, TamilNadu

- Relevant Coursework:** Data Structures and Algorithms (C++), Probability and Statistics in CS (Python), Intro to CS II (C++), Linear Algebra, Computational Applications (Python)

### BCM Arya Modal Sr. Sec. School

March 2021

*Non-Medical | 12th | (GPA: 8.34/10.00)*

Ludhiana, Punjab

### BCM Arya Modal Sr. Sec. School

March 2019

*10th | (GPA: 9.34/10.00)*

Ludhiana, Punjab