

Vivek Shahi

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SUMMARY

Data Backend Engineer with strong expertise in Python-based data processing, ETL pipelines, SQL systems, and cloud-native deployments. Passionate about building scalable data-driven systems and AI-powered workflows.

EDUCATION

Vellore Institute of Technology (VIT)

2022 – 2026

B.Tech in Computer Science and Engineering, CGPA: **9.20/10**

SKILLS

- **Languages:** Java, SQL, Python, JavaScript, TypeScript, Shell Scripting (Bash)
- **Cloud & DevOps:** AWS (EC2, S3), Docker, Terraform, CI/CD (GitHub Actions, ArgoCD), Lambda
- **Data Engineering:** Pandas, NumPy, ETL Pipelines, Data Cleaning, Feature Engineering
- **Backend & Automation:** Python, FastAPI, Django, REST API, Data Processing Workflows,
- **Database :** MySQL, MongoDB, relational schema design
- **Developer Tools:** Git, Postman, Selenium, TestNG, JMeter, Agile

PROJECTS

S.H.I.E.L.D. | Secure Heuristic Intelligent Email Logging & Defense

- Built a secure **NestJS** and **MongoDB** archiving system with AES-256, **OAuth 2.0**, and **10+** workflow features.
- Leveraged **Generative AI** to classify attachments, summarize email threads, and flag priority mails accurately.
- Engineered a **Cron**-based background worker and Retention Policy engine for automated archiving and cleanup.
- Designed RESTful APIs handling 10,000+ email records with secure JWT-based authentication.

Weather Monitoring & Forecast Dashboard | AgroSense (Data Analyst Project)

- Built Python ETL pipeline using Pandas/NumPy to clean and process time-series weather data from APIs.
- Applied rolling statistical analysis (mean, variance) to identify seasonal rainfall and temperature trends.
- Visualized trends and forecast confidence intervals using Matplotlib and interactive dashboards.
- Stored transformed datasets in relational schema using MySQL for efficient querying and reporting.

Chatify App | Real-Time Chat App + AWS Cloud Deployment

- Designed relational schema and optimized MySQL indexing for low-latency, high-throughput message retrieval.
- Orchestrated AWS EC2 deployments using Docker, Kubernetes (Helm charts), and Elastic IP configurations.
- Automated CI/CD pipelines using GitHub Actions and ArgoCD, reducing deployment time by 60%.
- Independently architected and deployed a production-ready containerized backend system with CI/CD and automated cloud rollouts.

CERTIFICATIONS

- **GitHub :** GitHub Foundations
- **IBM :** DevOps Fundamentals, Agile Methodologies

EXTRA-CURRICULAR ACTIVITIES

- Managed National Mathematics Day 2022 at VIT , coordinating 100+ attendees and 10+ sessions.
- Organized 3+ major workshops for the AWS Cloud Club, increasing member engagement by 35%.

ACHIEVEMENTS

- Achieved Global Rank **291** (top 0.9%) among 31,000+ participants in LeetCode Biweekly Contest 167.
- Secured the **Knight** badge on LeetCode, ranking among the top competitive programmers globally.
- National Semi-Finalist in **Flipkart GRiD 7.0** - recognized for strong problem-solving skills nationwide.
- Secured the **Expert** title on Codeforces, ranking among the top competitive programmers globally.