

# VAIBHAV TIWARI

## Gorakhpur, Uttar Pradesh, India

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## SKILLS

### Programming Languages

- Python
- JavaScript

### Databases

- MySQL
- PostgreSQL
- MongoDB

### Cloud Platforms

- Google Cloud
- AWS
- Firebase

- Vercel
- Netlify

### Web Development

- HTML
- Bootstrap
- CSS

### Web Frameworks

- FastAPI
- Django
- Flask

- Node.js
- TypeScript

### DevOps & CI/CD

- Docker
- Git
- GitHub Actions

### Web Scraping

- Scrapy
- BeautifulSoup

### Tools

- Figma
- Postman

## EDUCATION

- Krishna Engineering College, Ghaziabad

B.Tech in Computer Science and Engineering, August 2024

- J.P Education Academy, Gorakhpur

Senior Secondary School (C.B.S.E), March 2020

## ACHIEVEMENTS

- 5-star rating in HackerRank for SQL
- 5-star rating in HackerRank for Python

## CERTIFICATES

- Cloud Digital Leader Certification, Google
- AWS Cloud Certificates, Amazon Web Service
- Python Certification, StudySection
- HTML and CSS Certification, FreeCodeCamp

## EXTRACURRICULAR ACTIVITIES

- Class Representative in 1<sup>st</sup> and 2<sup>nd</sup> year at Krishna Engineering College
- School Captain during my 12<sup>th</sup> grade and House Prefect in the 11<sup>th</sup> grade at J.P. Education Academy

## PROFESSIONAL SUMMARY

Results-oriented Software Developer with a strong focus on back-end development, cloud engineering, and AI-driven solutions. Successfully optimized processes to enhance performance and reduce costs while deploying scalable infrastructures. Proven experience in automating workflows, streamlining data processing, and creating high-performance applications. Eager to continue learning and growing in the tech industry.

## EXPERIENCE

### Backend Developer Intern

March 2024- June 2024

House of Web3 (Remote)

- Optimized back-ends for an **Airdrop website** and **crypto platform** using **TypeScript**, enhancing performance and engagement. Implemented a **CI/CD pipeline** and integrated **AWS** to ensure seamless deployment and scalability.
- **Refactored algorithms** and created **scalable APIs**, reducing server load and improving processing speeds across applications.
- **Automated data extraction** from various websites and developed a **Python** and **FastAPI** framework, reducing data processing time by **25%**.
- Integrated the notification system with **WhatsApp API via Wati**, significantly **enhancing customer engagement**.

### Freelance Cloud Engineer

February 2024- April 2024

Mastervance (Remote)

- **Optimized AWS infrastructure** for an **EdTech** site, boosting performance by **35%** and cutting costs by **25%**. Implemented **scalable** and **secure solutions** to support up to **10,000 concurrent users**.
- **Managed AWS deployment** for a high-performance EdTech platform, using **EC2, S3, RDS, Lambda, SQS, Load Balancer** and **CI/CD** for **scalability** and **security**. Implemented Auto Scaling and monitoring to ensure **99.99% uptime**.

### Software Developer Intern

August 2023 - December 2023

LaunchX Labs (On-site: Bengaluru)

- Designed and implemented the **back-end architecture for a mobile application**, facilitating seamless reading and audio playback of books for users.
- Constructed a software using **Python** and **PyQt** that can **transform text into audio**, which **increased the efficiency of conversion to 70%**.
- The backend of a **promotional website** using the **FastAPI** framework, leading to a significant **75% improvement in server efficiency** and **resource management**.

### Python Developer Intern

July 2023 - August 2023

Darshil IT (Remote)

- **Redesigned software** comprehensively, including the **GUI, database, hardware integration**, and **cloud server**. Achieved a **60% improvement in loading speed** and a **30% increase in overall software efficiency**, reliability, and security.
- Leveraged **Python** and **PostgreSQL** for database management, showcasing skills in **Docker** and **GCP**. Improved user experience and system functionality through targeted optimizations.

## PROJECTS

### YouTube Video Transcriber

- Developed a web-based application that converts **spoken words in YouTube videos into written text**. Users can paste a YouTube video link, transcribe the video, and use the transcribed text to **answer queries about the video content**.
- Employed **Python** and **Streamlit** for development and **PostgreSQL** for database management. Demonstrated skills in logic implementation, and integration of **Gemini AI API** and **AssemblyAI** for enhanced functionality.

### RFID Tag Management System

- Developed an **RFID Tag Management System** using **Python** and **PyQt**, featuring secure login, automated data retrieval, and efficient vehicle registration. The system enhances accuracy by **auto-populating fields** with existing database information.
- Implemented a user-friendly interface with **customizable light and dark themes**. The software ensures smooth operation and accurate **data handling** throughout the registration process.