

# Vaibhav Patil

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## Summary

Web Developer with a strong foundation in full-stack development and API design. Demonstrated proficiency in JavaScript, jQuery, Git, npm, and CSS pre-processors for building responsive web applications. Experience in crafting efficient, user-friendly solutions while thriving in collaborative, cross-functional environments.

## Experience

### Tata Consultancy Services

Aug 2024 - Present

#### Python Developer

Bangalore

- Optimized Python-based applications to enhance system efficiency by 30% while collaborating independently to meet project deadlines.
- Engineered 3+ standalone tools with QtDesigner, Altair, NumPy, PyVista, and VTK, streamlining simulation workflows and reducing analysis time.
- Engineered a standalone 3D visualizer for battery pack analysis with VTK, showcasing effective API maintenance practices and cross-functional collaboration.
- Built a responsive web application dashboard to process and visualize raw manufacturing data, improving accessibility and enabling real-time insights.
- Automated data processing tasks with Python scripts, reducing manual effort by approximately 4 weeks and reinforcing the ability to work independently.

## Skills

**Languages:** Python, C, C++, java, JavaScript

**Frontend:** Next.js, React.js, CSS, HTML, Flutter

**Design:** Figma

**Backend:** Node.js, Express

**Machine Learning / Data Science:** PyTorch, Tensor Flow, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn

**APIs & Automation:** REST APIs, n8n (workflow automation), API integration

**Frameworks:** Django, Flask, Qt5

**DevOps / Cloud:** Docker, Kubernetes, Git, Vite

**Databases:** MySQL, PostgreSQL

**Quality & Compliance:** Website Accessibility Compliance, User Experience Testing

## Projects

### Weather App | Python | 2025

- Constructed a Python-based weather application integrating external APIs to fetch and display real-time weather data dynamically.
- Created an intuitive QtDesigner-based interface that enabled users to search and view weather conditions across multiple locations.

### Train Management System | Java | 2024

- Built a web-based train management system using Java Servlets for backend processing and JDBC for database connectivity.
- Implemented a user-friendly frontend with HTML, CSS, and JavaScript, allowing users to seamlessly book tickets, check schedules, and manage reservations.

## Education

### Bachelor of Engineering (B.E.)

Dec 2020 - Jun 2024

Basaveshwar Engineering College

Information and Science Engineering

GPA: 8.16

## Achievements and Certifications:

- Introduction to Cybersecurity  
Cisco  
2024
- Crash Course on Python  
Google  
2024
- Python Data Structures  
University of Michigan  
2024