

Vaibhav Patil

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Professional Summary

Software Developer with **1.5 years** of experience at **Tata Consultancy Services**, specializing in **Python backend development, React.js frontends, and AWS cloud solutions**. Delivered **8+ enterprise applications**, optimized performance by **30%**, deployed scalable systems on **AWS EC2/Lambda**, and automated workflows saving **160+ hours weekly**.

Technical Skills

- **Programming:** Python (2+ years), JavaScript, Java, C/C++, SQL
- **Python Frameworks:** Django, Flask, FastAPI, Celery, SQLAlchemy, Pandas, NumPy, Scikit-learn
- **Frontend & React:** React.js, Redux, React Hooks, Context API, Node.js, Express.js, RESTful APIs
- **AWS Cloud:** EC2, Lambda, S3, DynamoDB, API Gateway, CloudWatch, IAM, CodePipeline
- **Databases & Tools:** PostgreSQL, MySQL, Redis, MongoDB, Git, Docker, Linux, CI/CD, VTK

Professional Experience

Python Developer, Tata Consultancy Services

Aug 2024 - Present

Bangalore, India

1.5 Years Experience

- Engineered **8 Python applications** with Django/FastAPI frameworks, improving efficiency by **30%** for **200+ users**
- Built **React.js dashboards** integrated with Python backends, reducing analysis time by **40%** for **50+ engineers**
- Deployed applications on **AWS EC2/Lambda** with S3 storage, processing **10GB+ datasets** with 99.9% uptime
- Automated **12 CI/CD workflows** using Python scripts and AWS CodePipeline, saving **160 hours/week**
- Optimized **PostgreSQL queries** and implemented Redis caching, reducing API response time by **65%**

Projects

Cloud-Native React Dashboard with AWS Integration

2024-2025

React.js, Python FastAPI, AWS Lambda, S3, DynamoDB, EC2, Redux

- Architected **serverless backend** using AWS Lambda/API Gateway handling **100K+ requests/month**
- Built **React SPA** with Redux and Hooks serving **1000+ concurrent users** with **99.9% uptime**
- Deployed Python FastAPI on **AWS EC2** with auto-scaling, reducing infrastructure costs by **45%**

E-Commerce Analytics & Data Pipeline Platform

2024-2025

Python, Django, FastAPI, PostgreSQL, Redis, Pandas, AWS S3

- Built analytics platform processing **50K+ transactions/day** with Django REST and Redis caching
- Engineered ETL pipeline processing **5GB+ datasets daily** with Pandas/NumPy, storing in AWS S3

Education

B.E. in Information Science Engineering, Basaveshwar Engineering College

Dec 2020 - Jun 2024

GPA: 8.16

Karnataka, India

Achievements & Certifications

- Architected **AWS infrastructure** reducing costs by **45%**, built **React dashboards** serving **1000+ users**
- Completed **5 certifications:** AWS Cloud Practitioner, Python (Google), Cybersecurity (Cisco), React, Data Structures

Additional Information

- **Languages:** English (Fluent), Hindi (Native), Kannada (Native)
- **Links:** GitHub: github.com/vaibhav88614 — Portfolio: vaibhav88614.github.io