Abhay Singh Patel

✉ abhaysingh@iitbhilai.ac.in | ⓖ Abhay-86 | in Abhay | LeetCode | Codeforces | 📱 6392002533

SUMMARY

Software Engineer with strong experience in **backend systems, DevOps automation**, and **scalable microservice architectures**. Proficient in building high-performance applications using **Django**, **Next.js**, and **Rust**, while implementing automated cloud deployments using **Terraform**, **Ansible**, and **Docker**. Skilled in developing **CI/CD pipelines**, API gateways, and deploying **LLM-powered** applications for production-scale environments.

EDUCATION

2020 – 2024	**Indian Institute of Technology (IIT) Bhilai**, B.Tech in Computer Science	Raipur, Chhattisgarh, India
2017 – 2019	**Central Academy**, Intermediate	Kota, Rajasthan

WORK EXPERIENCE

Software Engineer | AuraML (DeepTech Company)   Currently | Remote, Bangalore, India

– Hosted select **core services** on the office network by configuring **DNS** with **static IP** assignments and deploying them via **bridge mode** over Wi-Fi.
– Automated cloud deployments using **Terraform** and **Ansible** for scalable infrastructure and instance provisioning.
– Built and deployed **microservices** — authentication (with email verification), storage management (in **Rust**), and core **WebRTC** service.
– Configured **API Gateway** and **Nginx reverse proxy** for multi-service routing, including **TURN server** setup.
– Developed backend services using **Django** and frontend modules with **Next.js**, integrating CI/CD via **GitHub Actions** runners.
– Deployed **LLM models** powering a Sales WhatsApp Bot and automated workflows for generating **USDA (3D environment)** files.
– Contributed to the core system architecture combining **C++**, **Django**, and **Next.js** for performance-critical DeepTech applications.

Tech: Terraform, Ansible, Rust, C++, Django, Next.js, Docker, GitHub Actions, Nginx, WebRTC, Microservices

Software Engineer | IVY Homes (Tech-enabled Business)   Bangalore, India

– Built and deployed end-to-end features from data scraping and deployed on **GCP**.
– Integrated Zepto Mail and WATI via Zoho CRM for marketing automation.
– Implemented **GCP Pub/Sub** for real-time service synchronization.
– Designed APIs and optimized database schemas aligned with frontend modules.
– Contributed to microservice scaling and observability for a growing user base.

Tech: Django (DRF), Next.js, GCP, Docker, PostgreSQL, Nginx, Linux, CRM Automation

Software Engineer | MAQ Software (MNC)   May – Nov 2024 | Hyderabad, India

– Worked on **Azure** Data Lakehouse for large-scale data storage and analytics.
– Cleaned and transformed datasets using **PySpark**.
– Developed Power BI dashboards and custom visualization cards for analytics.

Tech: Azure, PySpark, Power BI, Data Lakehouse

Web Developer Intern | Param Innovations   May – July 2023 | Bangalore, India
– Built frontend interfaces using **Chakra UI** and **React** hooks for accessible design.
– Developed responsive static websites and optimized state management for faster performance and SEO.

Tech: React, Chakra UI, JavaScript, SEO Optimization

Runner-up – Smart India Hackathon | NTRO   Aug 2022 | Remote
– Developed an end-to-end prototype for ransomware detection in university systems during a 24-hour hackathon.

Developer Intern | Agronomist Agrotech (College Startup)   Jan – Mar 2023 | Remote
– Worked on **Raspberry Pi** functionalities and enhancements.
– Contributed to the web interface using **Next.js**.

PROJECTS

LinkedIn Job Application Automation   [GitHub Link](#)

Automated LinkedIn job applications using **Selenium**. Working on integration with **OpenAI API** for dynamic autofill based on job descriptions.
Tech: Selenium, Python

Buy-Sell Platform   [GitHub Link](#)

Developed a marketplace platform for students to buy/sell items within college using **React** and **Node.js** with JWT authentication.
Tech: React, Node.js, Express, JWT

SKILLS

Languages	JavaScript, Python, C++, SQL, Rust
Frameworks	Django REST, Next.js, React.js, Node.js (Express)
DevOps / Tools	Docker, Terraform, Ansible, GitHub Actions, Nginx, Linux, GCP (Pub/Sub, Kubernetes)
Architecture	Microservices, API Gateway, Scalable Deployment Systems

ACHIEVEMENTS

- **Expert (1640)** on Codeforces and **4 (1783)** on CodeChef.
- **Rank 1** in college and **1091 rank** in CodeKaze'23.
- **Runner-up** at Smart India Hackathon 2024.
- Captain of district cricket team; Defender of district football team.
- Global Rank **1544** in Google Kickstart (Round E).