

# PRABHU CHATURVEDI

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## PROFILE

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Full-Stack Developer and AI practitioner with hands-on experience building secure cloud-deployed applications, automation systems, and LLM-powered solutions. Skilled in Python, TypeScript, React, Node.js, databases, and cloud platforms. Strong focus on scalable architecture, automation, and production-ready implementations.

## EDUCATION

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**B.Tech — Information Technology** Aug 2024  
Hemvati Nandan Bahuguna Garhwal University

**Diploma in Data Science & AI** Ongoing  
Indian Institute of Technology Madras

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, TypeScript, SQL, Bash  
**Frameworks:** React, Next.js, Node.js, Express, FastAPI, Flask, Streamlit  
**AI/ML:** LangChain, HuggingFace, OpenAI API, RAG Pipelines, Scikit-learn  
**Databases:** MongoDB, PostgreSQL, MySQL, FAISS, Pinecone  
**Cloud/DevOps:** AWS (S3, EC2, Lambda), Docker, GitHub Actions  
**Tools:** Selenium, Tableau, Power BI, Linux, REST APIs, JWT Auth

## PROJECTS

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### Algorithmic Trading Platform (Production-Grade)

Next.js, TypeScript, PostgreSQL, Prisma, Redis, WebSockets, SmartAPI

- Built full-stack trading platform supporting 53K+ NSE/BSE/NFO instruments with real-time data pipelines.
- Designed multi-timeframe trading algorithm using 12+ technical indicators and automated risk controls.
- Implemented paper-trading engine with slippage simulation, drawdown metrics, and strategy backtesting.
- Developed 120+ REST endpoints, rate-limiting, circuit breakers, encryption, and monitoring systems.
- Achieved 90%+ automated test coverage across trading logic and APIs.

### Chat With Your PDF — Secure RAG System

LangChain, FAISS, HuggingFace, AWS, Streamlit

- Built secure PDF question-answering system using retrieval augmented generation.
- Implemented vector search pipeline and context-aware LLM responses.
- Designed encrypted zero-retention file handling workflow.

### Loan Default Prediction System

Flask, MongoDB, Dash, Machine Learning

- Developed ML pipeline for loan risk prediction and deployed inference API.
- Built visualization dashboard for financial insights and reporting.

### Automated Resume Matcher Bot

Python, Selenium, OpenAI API

- Automated job matching, resume scoring, and application submission.
- Generated personalized cover letters using LLM context analysis.

### Dine24 — Restaurant E-Commerce Platform

React, Node.js, MongoDB, Stripe, AWS

- Developed full-stack ordering system with admin dashboard and payment integration.
- Implemented REST APIs, authentication, and deployment on cloud server.

## WhatsApp Automation System

Python, FastAPI, Twilio, PostgreSQL

- Built automated messaging workflows for onboarding, notifications, and alerts.
- Reduced manual messaging workload by over 60%.

## EXPERIENCE

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### Freelance Software Developer

2025 – Present

*Self-Employed, Remote*

- Developed an e-commerce web application for **Dine24 Restaurant** enabling online ordering, menu management, and secure order processing.
- Built full-stack architecture including responsive UI, backend APIs, and database integration.
- Designed an admin dashboard for managing orders, menu updates, and customer data.
- Implemented a **WhatsApp automation system** for **Kazumi International** to streamline customer communication workflows.
- Automated notifications, responses, and business messaging using API integrations and scalable logic.
- Ensured secure data handling, performance optimization, and production-ready deployment.

### Technical Intern — Zulu Club

2024-2025

- Improved internal web tools and automated data collection pipelines.

### Data Science Intern — The Sparks Foundation

2022

- Performed EDA, feature engineering, and predictive modeling.

## Certifications

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- **Oracle Analytics Cloud 2025 Professional** — Oracle (Nov 2025)  
Credential ID: 323530489OCIEA25OCP
- **Oracle Cloud Infrastructure 2025 AI Foundations Associate** — Oracle (Nov 2025)  
Credential ID: 323530489OCI25AICFA
- **AWS Academy Graduate – Cloud Foundations** — Amazon Web Services (Sep 2025)  
Credential ID: 2d41ae99-9660-48a9-bae7-4b07c6572dac
- **GfG 160 – 160 Days of Problem Solving** — GeeksforGeeks (Apr 2025)
- **Google Analytics Certification** — Skillshop (Jan 2025)
- **Google Analytics Individual Qualification** — Skillshop (Jan 2025)
- **Full Stack Development Certificate** — Meta (Jan 2025)
- **Intro to Machine Learning** — Kaggle (Dec 2024)
- **SQL (Advanced)** — HackerRank (Oct 2024)  
Credential ID: 29B49F7476E2
- **Online Internship Program** — Cloud Counselage Pvt. Ltd. (Jul 2024)  
Credential ID: IP-5040
- **Autoscaling Instance Groups with Cloud Monitoring** — Google Cloud (Jun 2024)
- **Web Development Certificate** — Masai (Mar 2023)
- **SQL and Relational Databases 101** — Cognitive Class (Mar 2023)
- **Technology Job Simulation** — Deloitte (Forage, Mar 2023)
- **Data Science Job Simulation** — BCG (Forage, May 2023)

- **Back-End Engineering Job Simulation** — Lyft (Forage, Feb 2024)
- **Ethical Hacking Bug Bounty** — Udemy (Sep 2022)
- **Certificate of Participation – GHCI** — Backbase (Dec 2025)

## **AREAS OF INTEREST**

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Full-Stack Engineering , Cloud Systems , Automation , Machine Learning , RAG Systems , Data Engineering , AI Security, Cyber Security