

# Prabin Sharma

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## Summary

Highly motivated Software Developer with 2+ years of experience specializing in Python-based AI/ML applications, including RAG and Agent AI systems. Proven ability in designing, developing, and deploying scalable solutions, optimizing performance, and leveraging expertise in technologies like Node.js, React.js, Microservices, and database optimization.

## Experience

### Software Developer

*ZeOmega Infotech*

03/2024 – Present

*Bengaluru, Karnataka*

- Build an internal, on-premise RAG-based Agent AI tool using Python and LangChain to assist developers with code understanding, learning, and generation, leveraging internal documentation and codebases.
- Created an internal code analysis tool using Python and Jenkins, resulting in a **15% reduction** in code review time.
- Designed and delivered client requirements using Agile methodologies, improving project delivery speed by **20%**.
- Improved API response time by **30%** through PostgreSQL query optimization and indexing.
- Proactively identified and resolved critical production issues, ensuring system stability and minimal downtime.

### Software Developer

*Roboprenr*

12/2022 – 02/2024

*Bengaluru, Karnataka*

- Designed a coding competition platform with Node.js and React, increasing user engagement by **25%**.
- Integrated a payment gateway and automated certificate generation system, processing 500+ daily transactions.
- Developed a CRM dashboard using Django and PostgreSQL, leading to an **18%** improvement in lead conversion.
- Implemented scalable solutions and optimized the platform architecture to handle increasing user load and data volume.

## Projects

### AptiCode — *Node.js, Python, Next.js, MongoDB, Docker, Redis, DnD, Gen AI*

10/2024 – Present

- Built a microservices-based coding platform handling 1000+ daily requests, utilizing Node.js, Go, Next.js, and MongoDB.
- Implemented Redis caching, achieving a **40% reduction** in database load, and secured the application with JWT authentication.
- Deployed the application on AWS ECS with auto-scaling, ensuring high availability and support for 500+ concurrent users.
- Implemented AI for user to get hint and the better solutions.
- Website: [apicode.in](https://apicode.in)

### Real-Time Chat — *Python, Django, WebSockets, PostgreSQL, Async*

03/2023 – 11/2023

- Engineered a real-time chat application with **99.9% uptime** and robust message persistence.
- Refined the PostgreSQL schema through indexing and query optimization, achieving a **35% reduction** in query execution time.
- Implemented WebSocket connection pooling to efficiently manage 1000+ concurrent user connections.
- Leveraged asynchronous programming with Python and Django to handle a large number of concurrent connections efficiently.

## Technical Skills

**Programming Languages:** Python, TypeScript, JavaScript, SQL

**Frameworks & Libraries:** LangChain, Node.js, Django, React.js, Next.js, Redux

**Databases:** PostgreSQL, MongoDB, Chroma, Redis

**Tools & Platforms:** Git, Docker, AWS (Elastic Container Service (ECS), Elastic Container Registry (ECR), Elastic Load Balancing (ELB)), Jenkins, Jira

**Concepts:** RAG, Agent AI, Microservices, REST APIs, WebSockets, Agile Methodologies, Data Structures, Algorithms

## Education

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### **North Eastern Hill University**

*Master of Computer Application (MCA)*

Shillong, Meghalaya

*12/2020 – 08/2022*

### **Gauhati University**

*Bachelor of Science in Mathematics (BSc. Mathematics)*

Guwahati, Assam

*08/2017 – 11/2020*

## Awards and Certifications

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- Received 5+ spot awards for outstanding performance and timely project delivery at Zeomega.
- Served as a Mentor at Roboprenr, assisting students in improving their coding and problem-solving skills.
- Completed the Introduction to Machine Learning course on Coursera.