Aditya Negi

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PROFILE SUMMARY

Enthusiastic Software Developer and Web Developer with a strong foundation in Python, JavaScript, C++, and Java.

Passionate about exploring cutting-edge domains like Blockchain, Cybersecurity, Hardware, and Artificial Intelligence.

Hands-on experience with DevOps tools (Docker, Kubernetes), cloud platforms (AWS, GCP, IBM Cloud), and databases (MySQL, PostgreSQL).

EDUCATION

- **Chandigarh University** — Punjab, India
  Bachelor of Engineering - Computer Science; CGPA: 7.52 — *Aug 2022 - July 2026*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Web Development, Networking, Databases*

SKILLS SUMMARY

- **Languages:** Python, HTML/CSS, C++, JavaScript, SQL, PHP, JAVA
- **Frameworks:** React, Jenkins, Bootstrap, Tailwind CSS, Selenium, Spring Boot, Nextjs, NodeJS
- **Tools:** Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite
- **Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS, GCP, Alibaba Cloud, IBM Cloud
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Blockchain Development Training** — May 2024 – Aug 2024
  Metacrafters — *Remote*
  - **Blockchain Fundamentals**: Mastered key concepts such as blockchain architecture, consensus mechanisms, cryptography, and security practices.
  - **Decentralized Applications (dApps)**: Developed and deployed dApps using JavaScript and smart contracts, focusing on scalability and functionality.
  - **Web3 and Use Cases**: Gained hands-on experience in implementing blockchain-based solutions for real-world applications in Web3 and DeFi.

- **Virtual Job Simulation** — Completed Oct 2024
  Accenture — *Virtual*
  - **Security Protocols**: Reviewed and implemented basic measures to enhance system security and maintain integrity.
  - **Programming Practices**: Applied advanced programming concepts to solve real-world problems with clean, maintainable code.
  - **Software Testing**: Conducted comprehensive software testing to identify and resolve bugs, ensuring smooth functionality.

PROJECTS

- **VibeCoin - Real-time Crypto Data & News (React, Vite, WebSockets)**: (In progress) Real-time crypto data and news app with WebSocket for live updates. Fast, responsive UI built with React and Vite. Features include price tracking, news aggregation, and charts. Tech: React, Vite, WebSockets, Crypto APIs, Tailwind CSS (Aug '24).

- **BharatSanskriti - Cultural Heritage Archive (React, Node.js)**: Digital archive for India's cultural heritage with content management, search, and multimedia integration. Tech: React, Node.js, MongoDB (Jan '25).

- **CodeBlitz - Competitive Programming Hub (React, Node.js, Express)**: (In progress) Platform for coding challenges, problem-solving, and competitive programming with real-time code execution and ranking system. Tech: React, Node.js, Express, MongoDB (Sep '24).

- **JRedis - Redis Clone from Scratch (Java, Data Structures, Networking)**: (In progress) Custom-built in-memory key-value store replicating Redis architecture, featuring data persistence, pub/sub, and efficient caching. Tech: Java, Multithreading, Socket Programming, Data Structures (Jan '25).

- **PruneMind - Chess Engine (AI, Minimax, Alpha-Beta Pruning)**: Built a chess engine with Minimax and alpha-beta pruning. Features: entropy-based evaluation, AlphaZero-inspired piece values, human/AI or AI/AI play. Tech: Python, Minimax, Custom Evaluation (Dec '24).

PUBLICATIONS

- **5G and Future Networks: Transforming Connectivity and Innovation**: Published research on advancements in 5G and next-gen networks, exploring ultra-low latency, high-speed data transfer, and IoT integration. Analyzed impact on industries, smart cities, and emerging technologies.

CERTIFICATIONS

- Blockchain Development by Metacrafters - June, 2024
- Advanced Data Science using R by Chandigarh University - December, 2023
- Multi-Core Computer Architecture by IIT Guwahati NPTEL - Oct, 2023

VOLUNTEER EXPERIENCE

- **Participant at HackOn With Amazon - Season 4**   Kolkata, India
  Recognized by Amazon for dedication, problem-solving, and active participation.   *June, 2024*
- **Blockchain Workshop - ICPHUB India**   Chandigarh University, India
  Gained in-depth knowledge and practical insights on blockchain technology.   *Feb, 2024*