

Chirag Aggarwal

Bachelor of Technology, Computer Science (AI Specialization)
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Experience

- Engineering Intern** Dec 2024 - Present
Appwrite Remote
 - Working with the Backend team on platform stability and improvements
- Backend Developer Intern** Jul 2024 - Sep 2024
Skillarena Remote
 - Led backend development using Node.js and Express.js, implementing microservices architecture that reduced API response time by 45% and improved scalability
 - Engineered a real-time messaging system using WebSockets and FastAPI, handling concurrent connections with 99.9% uptime
 - Implemented comprehensive API documentation and testing protocols, reducing bug reports by 40%
- Full Stack Developer Intern** Oct 2023 - Dec 2023
Clearmind AI Remote
 - Development of key features using Next.js and TypeScript, resulting in 40% faster page load times and 15% increase in user retention
 - Architected and orchestrated Stripe payment integration with 99.8% transaction success rate, processing 50K+ in monthly transactions
 - Architected automated testing suite reducing QA time by 60% and maintaining 95% code coverage

Personal Projects

- Asclepius - Healthcare Management System** GitHub
Python, SQLite, Custom Tkinter
 - Engineered a desktop application processing 1000+ daily medical records with 99.9% data accuracy
 - Implemented role-based access control system supporting 50+ concurrent administrative users
 - Designed inventory management system reducing medicine stockout incidents by 75%
- Cal Buddy - AI Calendar Assistant** Live Demo | GitHub
TypeScript, Next.js, CopilotKit, LLama3.2
 - Built scalable calendar application serving 500+ daily active users with real-time updates
 - Integrated LLama3.2 for smart scheduling, reducing meeting planning time by 60%
 - Engineered REST API handling 100K+ daily requests with average response time under 100ms
- Suraksha AI - Intelligent Surveillance System** GitHub
Python, Flask, Firebase, YOLOv11
 - Developed ML-powered security system achieving 95% accuracy in threat detection
 - Built real-time video processing pipeline handling 30+ FPS with edge computing
 - Created dashboard with Chart.js visualizing security metrics and reducing response time by 40%

Education

- Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence)** 2022-26
Bennett University, Greater Noida CGPA: 9.71

Technical Skills

Languages: PHP, Python, TypeScript/JavaScript, C++, Rust, Go, Java
Frontend: React.js, Next.js, Svelte, Vue.js, HTML5/CSS3, Redux, Tailwind
Backend: REST, Node.js, Express.js, Django, FastAPI, GraphQL, WebSocket
Databases: PostgreSQL, MongoDB, Redis, Firebase, Prisma ORM, MariaDB
DevOps & Tools: Docker, Kubernetes, Git, GitHub Actions, AWS, Postman, Jest

Achievements & Certifications

Awards: Dean's List (9.86 SGPA), DevFest'24 winner (Global OS Hackathon)
Certifications: Google IT Support, CISCO Cybersecurity, Postman API Expert, FPT University Summer Immersion Participant