

Harsh Agarwal

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EDUCATION

Institute of Technology, Guru Ghasidas University(CU) <i>Bachelor of Technology in Information Technology</i> <ul style="list-style-type: none">• GPA: 8.37/10.0• Coursework: Operating Systems, Data Structures, Algorithms, OOP in C++, Computer Architecture	Bilaspur, India <i>Oct. 2023 – Present</i>
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EXPERIENCE

FIST-TBI, IIT Patna <i>Fintech Research Intern</i> <ul style="list-style-type: none">• Research & Development: Researched payment solutions for Bihar startups under IIT guidance, analyzing fintech trends and emerging technologies in digital payment systems and blockchain integration• Backend Contributions: Contributed to backend development using Node.js and Python frameworks for emerging fintech companies, implementing secure APIs and database optimization	Patna, India <i>June 2025 – July 2025</i>
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Karyakaram <i>Full-Stack Developer Intern</i> <ul style="list-style-type: none">• Backend Development: Built complete backend architecture for React Native event management platform using Express.js, PostgreSQL, and Socket.IO, focusing on real-time chat system for group and solo chats• Full-Stack Integration: Integrated Redux for state management and JWT authentication, tested 30+ REST API endpoints with comprehensive frontend-backend integration and error handling	Remote <i>June 2025 – Present</i>
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Social Summer of Code <i>Open Source Contributor</i> <ul style="list-style-type: none">• Development: Developed React.js event platform with venue search and filtering using JavaScript, implemented Redis caching to optimize API latency by 25% and enhanced user experience	Remote <i>May 2025 – Present</i>
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GirlScript Summer of Code <i>Backend Developer</i> <ul style="list-style-type: none">• Optimization: Accelerated Node.js API response by 40% using Redis caching and MongoDB optimization, secured 500+ DAU with JWT authentication and rate limiting implementation	Remote <i>May 2024 – Sep. 2024</i>
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PROJECTS

Co.Lab: Real-Time Code Collaboration <i>MERN Stack, Gemini API, Web Containers</i> <ul style="list-style-type: none">• Features: Multi-user editor with live code execution, Redis session management (0.5s auth), and AI suggestions via Gemini API• Impact: Reduced debug time by 40% for 100+ users with web container-based runtime for Python/JS	2025
Cab Booking System <i>MERN Stack, Mapbox API</i> <ul style="list-style-type: none">• Core Features: Live tracking (98% accuracy), 2.3s booking flow, and Razorpay integration (99% success)	2024
URL Shortener <i>MERN Stack, Redis</i> <ul style="list-style-type: none">• Performance: 50ms redirects, custom analytics dashboard, JWT authentication, and rate limiting for users	2024

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, C
Frameworks: Django, React.js, Express.js, React Native
Data Technologies: Pandas, NumPy, Scikit-learn, MongoDB, Redis
Web Technologies: REST APIs, GraphQL, WebSocket, Tailwind CSS
Tools: Git, Docker, Firebase, Vite

ACHIEVEMENTS

5th Position – Code of Phoenix Hackathon (<i>Sentiment Analysis Platform for Social Media Advisory</i>)	Feb. 2025
8th Position – Level SuperMind Hackathon (<i>Astrology-based User Query Advisory Platform</i>)	Jan. 2025
Postman API Expert – Postman Certification	Oct. 2024

LEADERSHIP & VOLUNTEERING

GFG Student Chapter – Lead	May 2025 – Present
Google Developers Group – Web Development Executive	2024 – Present
NSS Volunteer – National Service Scheme	2023 – Present