

ASHWIN RAI

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EDUCATION

Indian Institute of Information Technology Bhagalpur

November 2022 – July 2026

Bachelor of Technology in Computer Science Engineering

CGPA: 7.16

EXPERIENCE

Weecom

June 2025 – September 2025

Backend Developer Intern

Remote

- Collaborated an internal tool with Django REST Framework, automating invoice, onboarding and reporting workflows to reduce manual effort by **40%** across company operations.
- Integrated Celery for resilient background processing (PDF generation, email/SMS notifications, retry logic), handling **300+ daily tasks** and improving throughput under peak load.

Jorte

March 2025 – July 2025

SDE Intern

Remote

- Reduced API latency by **17%** through Redis caching, query refactors and paginated endpoints for user-facing search and data-heavy routes during load tests.
- Launched a career-counseling service used by **8,000+ students**, adding scheduled mailers, activity tracking and A/B experiments to boost engagement and response rates.

SKILLS

Languages: C++, Python, JavaScript, TypeScript, CSS, HTML, SQL, YAML, GoLang.

Tools & Platforms: Git, GitHub, AWS, Cloudflare.

Technologies & Frameworks: React.js, Django Rest Framework, Tailwind, Node.JS, Hono, Turborepo, Next.JS, Docker, Kubernetes, WebSockets, Express, WebRTC, Redis, FFmpeg, MongoDB, Postgres, MySQL, Prisma, gRPC, GraphQL, MCP.

PROJECTS

DevZEN | Monaco, CRDT, WebSockets, S3, Kubernetes | [Source Code](#)

March 2025 – August 2025

- Built a cloud collaborative IDE (Monaco + CRDT-lite) enabling concurrent editing across **50+** active projects with low-latency sync; snapshot-to-S3 autosave preserved **100%** of recent edits and reduced data-loss incidents by **95%**.
- Designed Kubernetes deployment with per-project isolated pods (WebSocket + terminal), autoscaling workers from **0→2** nodes supporting up to **8** pods/node, achieving cold-starts **1.2s** and lowering infra cost by **30%** in load tests.

Chess-Royale | TypeScript, Turborepo, PostgreSQL, WebSockets | [Source Code](#)

December 2024 – January 2025

- Created a real-time multiplayer chess platform with WebSockets supporting **300+ participants** and **1,000+ matches**.
- Deployed via CI/CD and Nginx on AWS EC2 maintaining **99.99% uptime** and supporting **500+ concurrent** users.

UniBLOgic | React.js, Node.js, PostgreSQL, Docker | [Source Code](#)

July 2024 – November 2024

- Developed a college community platform with real-time chat adopted by **500+ active** users across campus organizations.
- Implemented a microservice video pipeline cutting costs by **30%** and improving delivery speed by **25%** for **250+** videos.

ACHIEVEMENTS

Leadership & Commitment

- Earned selection to the SSB, demonstrating exceptional analytical capabilities and decision-making proficiency
- Achieved **800+ commits** in under a year, reflecting consistent dedication to software development excellence

POSITION OF RESPONSIBILITY

CP/DSA Lead | GFG IIIT-BH Student's Chapter

April 2024 – April 2025

- Directed mentorship program for **100+ students** with focused coding exercises and challenges.
- Curated **20+ coding problems** and editorials, increasing engagement by **20%** and reducing queries by **25%**.

Club Lead | DevC IIIT Bhagalpur

January 2024 – January 2025

- Pioneered college community platform development, integrating CI and CD pipelines that reduced deployment times by **40%**.
- Organized **8 tech workshops** on modern tools (Git, Docker, Kubernetes) with **300+ cumulative participants**.
- Modernized college systems by introducing test automation, decreasing bug reports by **35%**.