

Aryan Jain

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TECHNICAL SKILLS

- **Core Skills:** MERN Stack Development, Data Structures & Algorithms, Algorithm Design, Object-Oriented Programming (OOP), API Design, Microservices, Agile Development, Open Source Development
- **Programming Languages:** TypeScript, JavaScript, Rust, Ruby, Python, C++, C#, SQL, HTML, CSS
- **Libraries / Frameworks:** Next.js, React.js, React Native, Next.js, Vue.js, Node.js, Express.js, Tailwind CSS, Streamlit, Ruby on Rails
- **Tools / Platforms:** Git, GitHub, GitHub Actions, GitLab, Docker, Spline, Cursor, OpenAI, Replit, Claude
- **Databases:** MongoDB, PostgreSQL, Supabase, Firebase, MySQL, Vector Databases
- **Cloud:** Salesforce, Amazon AWS, Google Cloud (GCP), Microsoft Azure
- **Testing / QA:** JUnit 5, PyTest, RSpec

WORK EXPERIENCE AND OPEN SOURCE

GoQuant

Backend Engineer Trainee – Exchange Developer

Miami, FL (Remote)

July 2025 – August 2025

- Engineered and optimized **low-latency backend modules** for the BitGet exchange using **C#** within an **OEMS v4 architecture**, enabling sub-millisecond order execution for **high-frequency trading** systems.
- Integrated and managed **BitGet APIs** to process real-time **Level 1 & Level 2 market data**, improving order book efficiency by **35%** and enhancing algorithmic trading throughput.

Summer of Bitcoin 2025

Mentee & Contributor

Sheridan, Wyoming (Remote)

May – August '25

- Selected among the **top 2% contributors globally** for a prestigious open-source program focused on **Bitcoin protocol** and **Lightning Network** development.
- Developed a **full-stack React + Flask visualization tool** to display Lightning Network message flows, and enhanced **LNPrototest** with **BOLT #1 message support**, improving test reliability and debugging speed by **25%**. **Proof of Work**.

Google Summer of Code 2025

Contributor – CircuitVerse, PalisaDoes Foundation & GeNN

OSS (Remote)

May – August '25

- Enhanced **CI/CD pipelines**, testing infrastructure, and refactored legacy codebases across three major open-source projects, improving scalability and maintainability.
- **CircuitVerse:** Unified **Ruby + Vue monolith**, upgraded **Node.js → v22**, and migrated simulator modules to **TypeScript**, achieving **100% unit test coverage** and authoring **24 PRs**.
- **PalisaDoes Foundation & GeNN:** Built comprehensive **unit and end-to-end test suites** achieving **100% coverage** for key modules, and transitioned from **Jenkins → GitHub Actions** with containerized builds and **parallel execution**, authoring **13 PRs**.

GitLab

Open Source Contributor & Technical Writer (Level 2)

OSS (Remote)

March – August '25

- Ranked among the **Top 5 contributors** in three consecutive GitLab OSS hackathons by enhancing technical documentation and developer onboarding experience.
- Developed and maintained **unit tests** across multiple product teams, increasing test coverage and improving release stability through structured QA automation.

LEADERSHIP EXPERIENCE

Google Developer Student Clubs

Organizer & Lead

Jabalpur, India

2024

- Led a core team of **12**, mentoring **1000+** students and scaling the community to **5000+** members across multiple initiatives.
- Organized workshops, hackathons, and study jams on Google Cloud, Generative AI, Flutter, and Web Development; recognized as a **Top 5 GDSC campus club** in India.

Google Cloud Arcade Facilitator

Facilitator (2x Certified)

Jabalpur, India

2025

- Facilitated Google Cloud Arcade campaigns twice, helping over **500+** learners gain Google Cloud skills and achieve the Ultimate Milestone badge.

PROJECTS

FinLitera – AI Financial Assistant	<i>Code</i>
<i>Next.js, Tailwind CSS, Shadcn-ui, Magic-ui, Supabase, NextAuth, Prisma, OpenAI API, Vercel</i>	<i>Preview</i>
<ul style="list-style-type: none">Developed an AI-powered financial platform serving 500+ users with personalized budgeting, investment guidance, and interactive learning.Implemented real-time portfolio analysis and AI recommendations using Next.js, Supabase, OpenAI API, handling multi-source data integration and 100+ concurrent sessions.	
ATS100 – AI Resume Analyzer	<i>Code</i>
<i>React.js, TypeScript, Tailwind CSS, React Router v7, PDF.js, Puter.js, Vite</i>	<i>Preview</i>
<ul style="list-style-type: none">Built a web app analyzing 500+ resumes, providing ATS scores and actionable feedback on strengths and weaknesses.Implemented PDF parsing, AI-driven content analysis, and live previews using React, TypeScript, Tailwind CSS, addressing real-time processing and type-safety challenges.	
CodeSpace – Real-time Collaborative Code Editor	<i>Code</i>
<i>React.js, TypeScript, Tailwind CSS, React Router, Node.js, Express.js, Socket.io</i>	<i>Preview</i>
<ul style="list-style-type: none">Developed a real-time collaborative code editor supporting 50+ concurrent users with sub-100ms synchronization latency.Engineered file management, chat, and notifications using Socket.io, solving concurrency, conflict resolution, and scalability challenges.	
InSignia – Indian Sign Language Translator	<i>Code</i>
<i>Python, CNN, Flask, OpenCV, Mediapipe, pytsx3, Google TTS</i>	<i>Preview</i>
<ul style="list-style-type: none">Built a real-time ISL translator converting 100+ gestures into text and speech, improving accessibility for hearing-impaired users.Implemented CNN-based gesture recognition, Mediapipe hand tracking, and Flask backend with TTS, achieving 95% recognition accuracy and 0.2s translation latency.	

ACHIEVEMENTS

- Solved **500+ DSA problems** in C++, Python, and SQL.
- Google Solutions Challenge 2024: **Regional Finalist** for an AI-driven educational platform for rural students.
- Microsoft Imagine Cup 2024: **Semi-Finalist** for an AI-powered sign language translation solution.
- Smart India Hackathon 2023: **National Finalist**, built a deepfake detection system.
- IIT Bombay E-Cell Eureka: Ranked in **Top 50 teams out of 5000+**, showcasing startup innovation.
- Cisco ThingQbator: **Top 10 Startup** recognized for product and business impact.
- Hacktoberfest 2024 & Open Source Connect India: **Top 10 Contributor & Mentor.**
- Competed in **77 esteemed hackathons** with multiple wins across **Devpost, MLH, and Onsite events.**
- Competitive Programming: **Meta Hacker Cup'25, Flipkart GRID, and AtCoder rating 700+.**
- NASA Citizen Scientist 2024: Contributed to **50+ research projects.**
- Topmate Mentor: Among the **Top 10% mentors** globally.
- GitHub: Maintained **1000+ contributions** across open-source projects.

EDUCATION

Gyan Ganga Institute of Technology and Sciences, Jabalpur	2022 - 2026
<i>Bachelor of Technology in Computer Science and Business System (CSBS)</i>	<i>CGPA: 8.25</i>
Ajay Satya Prakash Public School, Jabalpur	2021 - 2022
<i>Senior Secondary (Class XII), CBSE Board</i>	<i>Percentage: 92%</i>