# AKSHAT GIRDHAR

Delhi, India

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## EDUCATION

**Maharaja Surajmal Institute of Technology, IPU** *2020 – 2024*
*Bachelor of Technology in Electronics and Communication* *8.7 CGPA*
**Ahlcon International School** *2018 – 2020*
*Class XII* *92.4%*
**Ahlcon International School** *2016 – 2018*
*Class X* *93.4%*

## EXPERIENCE

**SDE-1 at GRID-OS** *February 2025 – Present*
Delhi, India

- Engineered an **end-to-end GPS management platform**, featuring a multi-threaded TCP server for concurrent data ingestion from multiple devices, an HTTP layer, and a real-time Electron/React dashboard along with MongoDB and a queue-based command architecture, enabling remote device control and **improved operational efficiency by over 50%**.
- Engineered automated in-line quality control testing using serial communication, achieving **80%+ reliability**, and integrated dynamic label generation to streamline production and eliminate manual work.
- Contributed to firmware development in C for GPS tracking devices, with **1000+ units deployed** in real-world environments.
- Developed key features for the Soundbox system, including **MQTT broker integration**, and **HTTP connectivity**, as part of its embedded firmware.
- Led client engagement for the GPS product across **5+ deployments**, managing onboarding, on-site testing, and support.

**Full Stack Developer at Koshiqa** *April 2024–January 2025*
Delhi, India

- Developed the company's main website, significantly enhancing user engagement metrics.
- Built 25+ real-time dashboards and internal tools to enhance data analysis and streamline support, boosting team productivity.
- Implemented a referral system, boosting user acquisition and improving the new user addition rate.
- Worked with technologies like Node.js, React.js, Tailwind CSS, AWS, Docker

## PERSONAL PROJECTS

**VoteTube** *2024-2025*
*NEXT.js, TypeScript, PostgreSQL, Tailwind CSS*

- A **collaborative platform** for group playlists where users can vote on songs and videos to determine playback order.
- Implemented **real-time leaderboard synchronization** with live voting and instant updates across all connected users.
- Launched in a real-world environment with active usage by over **125+ users**, driving consistent engagement and feedback.

**Leet-Rank** *2024-2025*
*Next.js, Tailwind CSS, PostgreSQL, Prisma, Vercel, GraphQL*

- **Developed an interactive web application** enabling users to compare their LeetCode performance across colleges.
- **Implemented secure authentication and onboarding** using Next.js and Prisma, ensuring data integrity and scalability.
- **Currently handling 200+ users**, enabling them to compete with their peers in college/community.

**LiteKite** *2024*
*React, Flask, Python, PostgreSQL*

- Built a stock broker simulation platform for **100+ users** to test trading and investment strategies in a risk-free environment.
- Integrated **real-time stock data, AI-driven insights**, and comprehensive market info for a realistic brokerage experience.

## SKILLS

- **Languages**: HTML, Python, JavaScript, TypeScript, C
- **Frameworks**: React, Flask, Node.js, Next.js
- **Databases**: PostgreSQL, MongoDB
- **Tools**: VSCode, Git/GitHub, Docker, Figma, AWS, Cloudflare

## CERTIFICATIONS

- Google IT Automation with Python (Coursera)
- CS50's Web Programming with Python and JavaScript (Harvard University) - Projects Playlist