



Jainendra Singh

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Profile

Dynamic Project Engineer with 1+ years of experience in driving innovative solutions in IoT/Server and application development. Expertise encompasses the design and implementation of IoT-based systems, ensuring secure server infrastructures, and optimizing application performance through rigorous testing and debugging. Proven ability to collaborate effectively within teams, developing detailed project plans that align with timelines and budget constraints. Committed to enhancing operational efficiency and safety in industrial settings through advanced technology integration and automation strategies.

Professional Experience

Engineer, IIT Kanpur, IIT Kanpur

Aug 2025 — Present

- Developed **Server, Dashboard, and Android Application** for projects like *DLC Pension (Ministry)* and *Pehchan Lo* (mAadhaar-type identity app).
- Built and maintained **secure backend systems** with smooth API integration and real-time data processing.
- Designed and implemented **IoT-based solutions** for automated data collection and verification.
- Performed **testing, debugging, and optimization** to improve performance and user experience.
- Collaborated with the team to **define scope, timeline, and deliverables**, ensuring on-time project completion.

Project Engineer, IIT Kanpur, Kanpur

Oct 2024 — Aug 2025

- Monitored and tracked project progress to support completion on time and within budget.
- Developed detailed work plans, schedules, project estimates and resource plans.
- Collaborated with team members to define scope, timeline, deliverables and resources needed to complete each task effectively.
- Designed and implemented IoT-based solutions for real-time data collection and processing.
- Developed and maintained secure server infrastructures to support seamless application performance.
- Conducted testing, debugging, and optimization of applications to enhance functionality and user experience.

Clifford Chance Cyber Security Job Simulation, IIT Kanpur, Kanpur

Jan 2021 — May 2024

- Completed the Clifford Chance job simulation where I assisted various clients with legal issues relating to cyber breaches.
- Provided guidance about responding to an ICO Dawn Raid to the managing partner of a rapidly growing online travel company. @ Assisted a major eCommerce business to notify stakeholders about a data breach in accordance with the GDPR.
- Formulated defensive strategies for a client with data centre operations to appropriately respond to a data breach.

Startup, IIT

Oct 2024 — Present

- IoT Code Development: Led end-to-end development of IoT firmware and software for smart breaker guards, enabling real-time remote monitoring/control via mobile/web interfaces.
- Cloud Server Management: Configured and maintained scalable cloud infrastructure for secure data transmission, storage, and system reliability.
- Cross-Platform App Development: Built user-friendly applications with RESTful APIs for seamless integration of circuit breakers, sensors, and automation protocols.
- Safety & Automation: Implemented automated alerts (SMS/email) and role-based access controls to prevent unauthorized tampering and enhance electrical safety.
- IoT Device Integration: Unified diverse hardware (sensors, switches) and protocols (MQTT, HTTP) to optimize panel security and operational efficiency in industrial/commercial setups.

Education

Central University of Haryana

M-Tech in Computer Science and Engineering, Sept 2024

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Chhatrapati Shahuji Maharaj University

Bachelors of Technology in information Technology, Jul 2022

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Wendy High School

intermediate in Computer Science, May 2018

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Kendriya Vidyalaya IIT, Kanpur

High School in Science, Jul 2016

Technical Skills

Programming & Development: Java, Kotlin (Android) Python C, C++ JavaScript
Backend & Server: Node.js / Express, PHP, MySQL, PostgreSQL, MongoDB, API Development & Integration, Server Management (Linux)
Application Development: Android/iOS, Jetpack Components, XML UI Design, Firebase (Auth, Realtime DB, FCM), REST API Integration
IoT & Embedded: Arduino, Raspberry Pi, IoT Sensors Integration, MQTT / HTTP Protocols
Tools & Platforms: Git & GitHub, Postman, Docker (Basic), VS Code, Figma (UI/UX)
Other Skills: Cybersecurity Basics / Ethical Hacking, OpenCV (Basic Computer Vision), Cloud Hosting (AWS / DigitalOcean)

Additional Information

Links: [Portfolio Website](#) [Github](#) [Linkdin](#)

Languages: Hindi, English