

RUDRANIL DAS

Connect: [Email](#) | [Linkedin](#)

Phone: +91 8013785503

Badges: [Credly](#) | [Cloud Skill Boost](#) | [Accredible](#)

Location: Kolkata, India



PROFESSIONAL SUMMARY

Forward-thinking **Project Manager & Tech Lead** with **8+ years** of experience delivering **end-to-end** software, IoT, AI, and Cloud solutions. Adept at managing cross-functional teams, overseeing complex timelines, and ensuring on-time, on-budget launches. Currently serving as **CIO at Freeflow Ventures**, guiding a 15+ person tech team and forming strategic partnerships with 12+ leading platforms. Skilled in bridging business objectives with cutting-edge technology to drive ROI for startups and enterprises.

CORE COMPETENCIES

- **Project Management & Leadership** – PMP frameworks, Agile/Scrum, Resource/Risk Management, Stakeholder Communication
- **Cloud & Infrastructure** – AWS, Google Cloud, Virtualization, Serverless Architectures
- **IoT & Embedded Systems** – ESP32, Raspberry Pi, LORAWan, MQTT, Edge AI
- **AI & Computer Vision** – OpenCV, TensorFlow, Real-Time Facial Recognition, Nvidia Jetson
- **Software Development** – MERN & LAMP Stacks, Laravel, Node.js, Python, Flutter, Ionic
- **Data Management** – MySQL, MongoDB, DynamoDB, Redis, Data Warehousing
- **Business Consulting** – Tech Due Diligence, BRS Development, Investor-Facing Reports, ROI Analysis

ACHIEVEMENTS & COMMUNITY

- Trained over 5000 students; mentored 1100+ academic projects
- 2nd Prize, Startup India (2018) for Covicas
- Organizer, Google Developer & AWS Community Kolkata

EDUCATION

- **B.Tech (Electronics & Communication)** – MAKAUT, Techno Main Salt Lake (2017)
- **Diploma (Electronics & Telecommunication)** – WBSCTE, JIS School of Polytechnic, Kalyani (2014)
- **12th (Science + Computer Science)** – WBCHSE, Haradaya Nag Adarsha Vidyalaya (2012)
- **10th (Madhyamik)** – WBBSE, Ramakrishna Mission Vidyalaya, Narendrapur (2009)

CERTIFICATIONS ([All Certificates](#))

- **Google Cloud** – Multiple professional credentials (Architecture, Networking, Kubernetes, TensorFlow)
- **AWS** – 27+ Course Certificates (including DevOps Engineer) from Amazon Web Services
- **MongoDB** – Multiple Course and Course Learning Path Certificates
- **IBM** – Multiple Course Certificates on Docker and Kubernetes
- **IoT** – University of California, San Diego
- **AI & Computer Vision** – Intel® AI, NVIDIA Jetson Nano
- **Project Management** – PMP® Plus, Agile Scrum Master, PMI-PMP Training

PROFESSIONAL EXPERIENCE

Freeflow Ventures Pvt. Ltd.

CIO (IT Director) & Tech Lead | Mar 2020 – Present

- Lead and nurture a 15+ member tech team delivering advanced solutions across AI, IoT, Data Analytics, and Cross-Platform Development.
- Oversee cloud architecture, security compliance, and cost optimization for multiple startup projects.
- Manage strategic alliances with major providers (AWS, Google Cloud, Nvidia, Hubspot, Digital Ocean, JetBrains etc.).
- Deliver investor-facing due diligence, bridging tech roadmaps with business KPIs.

MasterMentors (AVS Creations Pvt. Ltd.) (Same founder from I and We)

CTO | Aug 2019 – Mar 2022

- Led product development for a celebrity-led EdTech platform, integrating video streaming pipelines.
- Coordinated sprints, managed resource allocations, and enforced coding standards.

I and We (Seekhlo Education Pvt. Ltd.)

Solution Architect | May 2018 – Feb 2020

- Created IoT/AI-driven products (Smart Energy Meter, Indoor Location, Covicas Security) by leading multi-functional teams.
- Mentored 5000+ students, 1100+ projects, conducting technology workshops in engineering colleges.

Developer | Jun 2017 – May 2018

- Developed hybrid mobile apps (Ionic, Angular) and contributed to a Laravel-based LMS.

Internships

- **Tootle India** (Jul 2016 – Oct 2016): Graphic design & video editing
- **I and We (Seekhlo Education)** (Jan 2017 – Jun 2017): Worked on IoT prototypes and MEAN Stack

WHY HIRE ME

- **Full-Lifecycle Oversight** – From scoping to post-launch, ensuring deliverables align with business goals.
- **Cross-Functional Leadership** – Coordinates devs, designers, QA with agile best practices
- **Innovation & Scalability** – Expertise in AI, IoT, and large-scale cloud solutions
- **Business Alignment** – Skilled at bridging technical details with ROI-focused investor presentations

SPECIAL NOTE

I understand that my project experience timeline may appear extensive. However, the projects I have worked on have been deeply impactful and hold significant value in shaping my professional journey. I kindly request your patience in reviewing the details, as each project is meaningful and has contributed to my growth. Please be assured that only major, defining projects are included in the list from the next page.

DETAILED PROJECT TIMELINE

Below is a **year-by-year** outline featuring your role in each project. ([Evidences](#))

2025

1. **Easyfix – AI-based Job vs. Technician Ranking** –[Website](#)
 - **Role:** Algorithm Designer, Team Lead
 - **Focus:** Complex matching algorithm
 - **Scope:** Assigned best-fit technician based on skill, location, availability
2. **Digital Mandi** (In Progress)
 - **Role:** Solution Designer
 - **Focus:** Real-time livestock bidding
 - **Scope:** Laravel-based auctions, integrated e-payments, concurrency handling

2024

1. **Freeflow Digital 2.0 + Upflow + Datags**
 - **Role:** Chief Architect, Team Lead
 - **Focus:** MERN-based venture building with integrated LLM
 - **Scope:** Rebuilt Freeflow's platform for dynamic investment management, AI-driven market data insights
2. **Mamata Healthcare** (In Progress)
 - **Role:** Architect, Team Lead
 - **Focus:** End to End business suite of softwares including, Intelligent EMR system + multiple user-role apps.
 - **Scope:** Docker, Laravel, React Native for doctors, diagnostics, pharmacists, and patients
3. **Mindsmith** –[Website](#) (Beta Ready)
 - **Role:** Concept, Architect, Team Lead
 - **Focus:** AI-driven personalized mental health management and healing
 - **Scope:** Implemented machine learning pipelines, data security, digital diaries
4. **AWAFX** –[homepage](#),[Visualizer](#) (Phase1)
 - **Role:** Concept, Architect, Team Lead
 - **Focus:** Integrated ERP E-commerce + 3D interior visualizer
5. **OneShade** (In Progress)
 - **Role:** Lead Designer
 - **Focus:** Aggregated NGO donations Platform, Enables seamless daily giving and a connected endowment Management Portal
 - **Scope:** Recurring donation plans, cause-based campaigns, simplified user flows
6. **Puttshack** (Prototype)
 - **Role:** Project Team Lead
 - **Focus:** Indoor mini-golf with sensor analytics and Real Time Image Recognition
 - **Scope:** BLE beacons, motion sensors, Python OpenCV for scoring
7. **Shippin** (In Progress)
 - **Role:** Multi-app logistics solution
 - **Focus:** Real-time route tracking
 - **Scope:** Laravel, React Native, and Google Maps APIs for comprehensive logistics management

2023

1. **Facelabs for Gyms**
 - **Role:** Team Lead
 - **Focus:** Attendance, posture detection
 - **Scope:** Facial recognition, posture analytics, and membership tracking
2. **Pitch Event & Jury System**
 - **Role:** Concept, Team Lead
 - **Focus:** Automated startup pitching platform
 - **Scope:** Multi-round pitch management, real-time scoring, category separation
3. **Tripstore Holidays** –[Website](#),[Microsite](#)
 - **Role:** Team Lead
 - **Focus:** Holiday booking + influencer microsites
 - **Scope:** Combined Laravel & Next.js, custom booking engine, marketing integrations.
4. **The Online Olympiad** –[Portal](#)
 - **Role:** Team Lead, Cloud Migration
 - **Focus:** Real-time tournament management
 - **Scope:** Migrated to AWS for improved uptime, utilized Socket.io for live scoreboard

Consultancy & Due Diligence Projects

- **Parkosi** –[Website](#) (Car parking)
- **Lyft India** –[App](#) (Cab booking)
- **Dog Nation** –[Website](#) (Pet care)
- **Eyecan** –[Website](#) (Accessibility)
- **TraceX** –[Website](#) (Blockchain supply chain)

- *Provided concise technical guidance & integrations for specialized needs (location services, ride-hailing, pet grooming, accessibility, blockchain-based traceability).*

2022

1. **Bluemedix** –[Website](#)
 - **Role:** E-commerce + ERP Lead
 - **Focus:** Pharmacy chain management
 - **Scope:** End-to-end system with multi-warehouse inventory, online retail, and Flutter-based mobile apps
2. **Debate for Democracy (DFD)** – [Web App](#)
 - **Role:** Team Lead, Cloud Architect
 - **Focus:** Live debate hosting, real-time fact-checking
 - **Scope:** AWS Serverless (Lambda, DynamoDB), sentiment analysis, audience polling.
3. **Facelabs** (for Clubs/Restaurants)
 - **Role:** Tech Lead (Face Recognition)
 - **Focus:** Membership & loyalty via facial ID
 - **Scope:** Python, TensorFlow, hardware integrations for entry-exit logging

4. **Enablic** –[Web App](#)
 - **Role:** Project Team Lead, Cloud Solution Architect
 - **Focus:** AI-powered “Brain Gym” for diverse learners
 - **Scope:** Built web architecture with JavaScript, Python, and MongoDB for inclusive learning modules.

Consultancy & Due Diligence Projects

- **Civil Guruji** –[Web Portal](#) (AI-based microlearning for civil engineers)
- **Malhampatti** –[Web App](#) (EMR & telemedicine)
 - *Provided technical advisory, minimal architecture design, and dev best practices*

2021

1. **Freeflow.zone v1** –[Website](#)
 - **Role:** Tech Lead
 - **Focus:** Startup membership & life-cycle management
 - **Scope:** Combined WordPress with custom plugins for dynamic features
2. **CarePlix (Care Now)** –[Website](#)
 - **Role:** Cloud advisory
 - **Focus:** Face/finger scan-based cardiac monitoring
 - **Scope:** Helped design secure, scalable cloud architecture for real-time vitals tracking

3. **Fun Walking Club**
 - **Role:** Project Team Lead, Cloud Solution Architect
 - **Focus:** Gamified walking app with community features
 - **Scope:** Implemented Flutter + Firebase for user engagement, rewards, and social sharing

2020

1. **Smart Aquaculture Bot (Rising Tide)**
 - **Role:** Lead Technical & Solution Designer
 - **Focus:** Solar-powered fish farm monitoring (LoRa, water sensors)
 - **Scope:** Coordinated hardware (ESP32, LoRa) and software for offline operation, auto weather protection

2. **MasterMentors**
 - **Role:** Cloud & Video Pipeline designer
 - **Focus:** Celebrity-led EdTech platform
 - **Scope:** Architected AWS-based streaming, user access, multi-tenant content management

2019

1. **Covicas (Extended)**
 - **Role:** Tech Lead for AI Integration
 - **Focus:** Advanced face recognition, multi-camera setups
 - **Scope:** Enhanced real-time accuracy, multi-camera streaming, and security analytics
2. **Centre of Excellence IoT Lab (Techno India Group)**
 - **Role:** Architecture Designer, Deployment Lead
 - **Focus:** IoT educational setups
 - **Scope:** Delivered 11 domain-specific IoT kits + a central dashboard for remote access
3. **Exhibeacon – Vintage Trail App (National Museum Kolkata)**
 - **Role:** IoT & Hardware Implementation
 - **Focus:** Proximity-triggered exhibit info
 - **Scope:** Exhibit Model wise audio and textual trailed story telling to the visitors via an Vintage trail mobile app without requirement of a guide or manual click/scan

News Articles:
<https://bengali.news18.com/videos/indian-museum-kolkata-brings-new-app-for-visitors-275160.html>,
<https://www.deccanherald.com/india/now-indian-museum-launch-app-718246.html>

2018

1. **Covicas Solution**
 - **Role:** AI & Computer Vision Lead
 - **Focus:** Computer vision–driven industrial security solution
 - **Scope:** Implemented face recognition, real-time monitoring; awarded 2nd Prize (Startup India, 2018)
2. **Smart Energy Meter (Ambuja Neotia)**
 - **Role:** Solution Designer & Developer
 - **Focus:** Real-time campus energy usage analysis
 - **Scope:** Node-RED, Python, IoT sensors on ESP32/Raspberry Pi to track consumption
3. **Indoor Location Tracking (Airport)**
 - **Role:** Lead Solution Designer
 - **Focus:** BLE beacon–based staff/asset tracking
 - **Scope:** Deployed beacons and software logic to improve indoor positioning

Wiretech Go Green (AdmyBin)

 - **Role:** End-to-End Solution (AWS, MQTT, MEAN)
 - **Focus:** Smart waste management
 - **Scope:** Implemented odor control, voice assistant, reward point system
4. **Smart Feedback System (IOCL)**
 - **Role:** Solution Designer, Cloud Architect
 - **Focus:** Washroom cleanliness monitoring & sanitary napkin vending
 - **Scope:** Provided hardware integration, real-time alerts, and usage analytics.

2017

1. **Fixcure**
 - **Role:** Developer (Ionic, Angular)
 - **Focus:** Doctor booking app with location-based features
 - **Scope:** Built a mobile solution integrating Google Maps for user-doctor proximity and appointment scheduling.
2. **I and We's LMS**
 - **Role:** Developer (Laravel/PHP)
 - **Focus:** Web-based learning management system
 - **Scope:** Contributed to backend features, user management, and course organization.