

Aditya Pandey

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Experience

Partnr, Gurugram

Jan 2026 – July 2026

SDE Intern

- Contributed to migrating a React Native application to support **16KB memory page size**, updating dependencies and resolving compatibility issues to ensure **Google Play compliance**.
- Identified and fixed **low-level library and native module incompatibilities** through iterative testing, improving application stability across newer Android devices.
- Built a modular **Garage Management System** as a **Node.js plug-and-play module** for digitizing **garage service operations**, integrated within the Partnr platform (**200K+ users**).

Optum Global Solutions, Hyderabad

Jun 2025 – Aug 2025

Technology Development Intern — Software Engineering

- Automated **PBM client plan renewal document comparison and summarization** using LLMs, reducing manual review effort and cutting turnaround time by **70%**, as part of the **RxComet onboarding portal**.
- Engineered a **Redux-powered dialog box in RxComet** with REST APIs to store and display generated outputs, improving reviewer productivity by **70%**.
- Collaborated with cross-functional teams to **optimize RxComet's workflow integration**, ensuring scalability and seamless adoption across multiple client use cases.

Projects

CareerClock — Placement & Career Dashboard (MERN, React.js, Node.js, MongoDB) — [LINK] Jan 2025 – Mar 2025

- Developed a **career portal** to track on/off-campus placements with eligibility filters, deadline management, and automated reminders, adopted by **500+ students**.
- Enabled students to **apply directly from the portal**, reducing missed applications by **50%** and saving hours otherwise spent manually checking placement notices.

IrrigoTwin — Digital Twin for Hydroponics (AWS IoT, MQTT, React) — [LINK]

Jul 2024 – Nov 2024

- Constructed a control platform leveraging **AWS TwinMaker, IoT Core, and Lambda**, reducing hydroponic water usage by **20%**.
- Designed MQTT pipelines and React dashboards for live visualization, preventive alerts, and automation.

ParkingScan — AI Parking Detection System (YOLOv5, OpenCV, Tkinter) — [LINK]

Jun 2024 – Jul 2024

- Led a 5-member team to develop a **YOLOv5-based parking detection system**, eliminating the need for costly hardware sensors.
- Achieved **94% detection accuracy** on PKLot and CNRPark+EXT datasets, validated through a real-time **Tkinter dashboard**.
- Built an end-to-end pipeline for **vehicle detection and slot occupancy tracking**, enabling scalable and cost-effective smart parking solutions.

Sweat Set — AI Fitness Tracker (MERN, ml5.js, p5.js) — [LINK]

Feb 2024 – May 2024

- Programmed browser-based posture detection with **ml5.js**, achieving **80% accuracy** and scaling to **100+ users**.
- Enhanced retention with gamification features (leaderboards, streaks), driving higher daily engagement.

Awards & Achievements

Hackathon '25 — Winner (Agri-Tech)

Apr 2025

- Led 3-member team to 1st place among **100+ teams** with **FarmLink**, a pump automation + SMS alert solution.
- Deployed across **70+ farms**, reducing manual irrigation effort by **60%**.

StartupThon '24 — Winner

Dec 2024

- Co-led creation of an AI-powered eye wellness platform for fatigue detection, brightness control, and early disease alerts; reached **20+ beta users**.

Education

Thapar Institute of Engineering and Technology

2022 – 2026

B.E. in Computer Science Engineering

- Key Courses: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Distributed Systems

Skills

Programming: C, C++, Python, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks: React, Node.js, Express, Next.js, LangChain

Cloud & DevOps: AWS (IoT Core, Lambda, S3, CloudWatch, TwinMaker), Docker, Git, CI/CD

Machine Learning: PyTorch, Hugging Face, YOLOv5, OpenCV, MediaPipe, ml5.js

Databases: MongoDB, SQLite