

ARPAN GUPTA

Full Stack Developer

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PROFILE

Full Stack Developer with hands-on experience building scalable microservices, real-time dashboards, and AI-integrated applications. Skilled in NestJS, React, MongoDB, GRPC, and AWS. Passionate about building impactful tech and solving real-world problems.

A Full Stack Developer. Passionate to learn new technologies and frame work.

EDUCATION

Raj Kumar Goel Institute Of Technology, Ghaziabad, UP 09/2020 – Present
Bachelors Of Technology, Computer Science
7.91 CGPA

EXPERIENCE

Xcelore 06/2024 – Present
Software Engineer (Full Stack)

FarMart- AgriTech 10/2023 – 01/2024
Web Development Intern
As a Web Development Intern, delivered end-to-end front-end features using React. I meticulously designed features to match the specifications provided by the designer. This experience taught me invaluable lessons in teamwork, problem-solving, and adapting to challenges, contributing significantly to my professional growth

Code Quotient 06/2023 – 07/2023
MERN stack Intern
As MERN stack Intern. i delivered TMS Here a client or user generates/raises a ticket against an issue ,then an employee of the particular department can view it and on clicking both can talk to each other and when the issue gets resolved than on clicking resolved button ticket get closed

SKILLS

- node.js
- react.js
- microservices
- postgres
- SQS
- Redis
- CSS
- Redux
- fcm
- C
- MultiThreading
- Test Driven Development
- express.js
- nest.js
- GRPC
- rds
- FCM
- ElastiCache
- SCSS
- FireBase
- Java
- SQL
- OPC-UA
- mongo Db
- socket.io
- Event-Driven architecture
- S3
- Matrix
- HTML
- JavaScript
- React-Native
- XML
- OOP's
- jest(unit Testing)

PROJECTS

Steris: VHP-FLEX Data Acquisition from PLC's and show analysis

09/2025 – Present

Xcelore

- VHP Flex is a generator that sanitizes rooms using multiple sensors and PLCs.
- Designed network topology for PLC-Raspberry Pi communication. Built data acquisition using Express.js+SQLite syncing to remote postgres via scheduler.PLC data through opc-ua
- Migration: Shifted Express.js to NestJS (TypeScript) for scalability, implemented SQS (FIFO) for offline-to-online sync, and developed a React dashboard for data visualization.
- Automation: Wrote shell scripts to auto-build and deploy on Raspberry Pi reboot, schedule nightly code updates, and maintain synced SQLite/Postgres data.
- Key Skills: Networking Fundamentals, SQS-FIFO, Postgres, SQLite, OPC-UA, TIA, DB Design, Generic Code Architecture

Muzeaic - : Muzeaic is a social media application designed exclusively for women, focusing on creating a safe, engaging, and empowering digital space.

05/2025 – 08/2025

Xcelore

- Contributed to the development of robust backend services using Nest JS within a microservices architecture.
- Implemented GRPC for interservice communication and also performed event-driven inter service communication with Amazon SQS for asynchronous task handling (Eg. to send notification via fcm)
- Designed and implemented scalable data models using MongoDB and PostgreSQL.

- Implemented ElastiCache (Redis) for center cache management
- Implemented End-to-End encrypted chat service with Open Source Matrix
- key skills: NestJS, MongoDB, PostgreSQL, Microservices, SQS, Caching, Firebase, media transformation, real time chat.

EXEI - Ai Powered Chatbot For Domain-Specific Interations

03/2025 – 05/2025

Xcelore

- Started Migration from monolith architecture to microservices
- setup Nestjs microservice for sending emails ,used event driven approach (SQS-Standard) created custom SQS transport
- integrated Ai services and improved latency for response
- Key Skills involved NestJs, Microservices, SQS, Event Drivent approach, SSE, streams

SGS - Indian Air Force Wind Profiler

01/2025 – 03/2025

Xcelore

- Developed a real-time data visualization dashboard to display and analyze wind data through various visual formats including heatmaps, wind shears, wind barbs, and more.
- Skills Utilized D3.js, React.js, CSS, REST APIs, PostgreSQL, Role-based authentication using cookies.
- Key learnings Gained deep understanding of D3.js capabilities for custom and unique plotting techniques, effectively integrating D3.js with DOM for interactive and real-time visualizations.

FutureClo (FVTO)

07/2024 – 12/2024

Xcelore

- The Virtual Trial Mirror is an innovative application designed to enhance the online shopping experience for customers. Utilizing the advanced capabilities of Snapchat's Lens Studio, this project creates a virtual mirror that allows users to try on clothes virtually. By integrating this technology into online retail platforms, customers can see how different outfits look on them without physically trying them on.
- Skills UtilizedReact JS, Tailwind CSS, REST API, NestJS, Mongodb, AWS S3, SES, Node Mailer, Secret Manager, Cookie Based Authentication and Authorization With PassportJs, Passport-jwt.
- Key learnings in the ProjectStudy the capabilities and limitations of Snapchat Lens Studio, Develop the frontend using Tailwind CSS to create a responsive and user-friendly interface

Farmart

Delivered end-to-end front-end features using React. I meticulously designed features to match the specifications provided by the designer. Throughout my internship, I successfully implemented various aspects of React, including using ,redux for global state management ,intersection observer for pagination and many things.I collaborated closely with both designers and backend engineers to integrate different APIs seamlessly. After rigorous testing, I ensured smooth releases to production environments. This experience taught me invaluable lessons in teamwork, problem-solving, and adapting to challenges, contributing significantly to my professional growth

CERTIFICATES

In recognition of the provisional discovery of Main Belt asteroid: 2021 RX32 in IASC which is supported by NASA
I discovered an asteroid 2021 RX32 from PANSTAR's observatory data under International Astronomical Search Collaboration which is supported by NASA

In recognition of the provisional discovery of Main Belt asteroid: 2021 QF54in IASC which is supported by NASA
I discovered an asteroid 2021 QF5 from PANSTAR's observatory data under International Astronomical Search Collaboration which is supported by NASA

Java guided path on Coding Ninjas Studio
completed the Basics of java guided path on Coding Ninjas Studio