PRINCE RAJ

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EXPERIENCE

Backend Developer Intern at Ratoverse. [(View here)](#)   Jan - July, 2025

- Solely responsible for designing and building a robust and scalable backend API from scratch using NestJS for a social media platform, encompassing 30+ endpoints for core features without compromising security.

- Implemented 5+ core features, like Sign-In with Google (leveraging OAuth 2.0), OTP-based verification (using Brevo), profile customization (including profile picture upload, bio, location, etc.), and support for hashtags in posts, etc.

- Designed and optimized the database schema using MongoDB, incorporating geospatial indexing for efficient retrieval of location-based data, to ensure scalability and efficient handling of a large volume of user data and concurrent requests.

ACHIEVEMENTS

Patent on IoT-Enabled Predictive Farming System with Resource Optimization   [(View Doc. Here)](#)
Application (202531042207 A) published by the Indian Patent Office, by the Government of India on May 23, 2025

SKILLS

Languages	JavaScript, TypeScript, HTML, CSS, C++
Technologies/Frameworks	NodeJS, NestJS, ExpressJS, NextJS, ReactJS, Google Firebase, Vercel, JQuery RESTful API, MongoDB, Tailwind CSS, Tesseract.js (Image Processing)
Developer Tools	Visual Studio Code, Git, GitHub, Vercel, Postman, MongoDB Atlas, Cursor Linux

PROJECTS

CoverGenius. [(Try it here)](#)

- Developed an AI-powered web tool that generates tailored and professional cover letters in real-time based on user-input job descriptions and resumes.

- Implemented dynamic content personalization and job-matching algorithms, improving relevance and quality of generated cover letters.

- Deployed on Vercel to ensure high availability and low-latency performance, maintaining a 99.95% uptime rate.

OCR-based Marksheet Scanner and CSV Converter Tool. [(View here)](#)

- Built an open-source web-based OCR application using Tesseract.js that automates the conversion of mark sheets to CSV, handling 20+ fields of data per mark sheet like, student name, subject, grades.

- Engineered custom utility functions with the proper documentation to extract relevant data from the mark sheets, ensuring accuracy of about 99% in the converted CSV format.

EDUCATION

Bachelor of Technology, Narula Institute of Technology   2023 - 2027
Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning
CGPA(out of 10): 8.68

EXTRA-CURRICULAR ACTIVITIES

- Web Development Lead of [Google Developer Groups on Campus '25](#) at Narula Institute of Technology and an active participant in hackathons, and events organized by [Google Developer Groups, Kolkata](#).

- Practiced 200+ coding problems, building strong foundations in data structures, algorithms, and coding efficiency.