

# Ayush Kumar

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## PROFILE SUMMARY

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- **Frontend Development:** Proficient in building responsive and interactive user interfaces using React.js, Next.js, JavaScript, HTML5, and Tailwind CSS. Skilled in component-based architecture, state management, and optimized UI/UX design.
- **Backend Development:** Experienced in building scalable and secure RESTful APIs using Django, Node.js and Express.js. Knowledge of server-side logic, authentication systems (JWT, Google OAuth), and third-party integrations.
- **Database Management:** Hands-on experience with relational and NoSQL databases including PostgreSQL, MongoDB, and MySQL. Skilled in schema design, data modeling, and query optimization.
- **Authentication & Security:** Implemented user authentication and authorization using JWT and OAuth2. Knowledge of secure coding practices, form validation, and protection against common web vulnerabilities (XSS, CSRF, etc.).
- **Project Deployment & DevOps:** Familiar with deploying full-stack applications on platforms like Netlify and Render. Basic knowledge of CI/CD, GitHub workflows, and version control using Git.
- **Programming Languages:** Strong in Python, JavaScript, and C++ with a solid understanding of object-oriented and functional programming concepts.
- **Problem Solving & DSA:** Adept in Data Structures and Algorithms, with a problem-solving mindset and competitive programming experience.
- **Teamwork & Agile Development:** Collaborated effectively in agile teams using Scrum methodology. Participated in code reviews, sprint planning, and cross-functional coordination.
- **Learning Attitude:** Passionate about continuous learning, staying up-to-date with tech trends, and exploring new tools and frameworks to build efficient and modern web solutions.

## PROFESSIONAL EXPERIENCE

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### Full-Stack Developer

Mar 2024 - Oct 2024

#### Incupad India Pvt. Ltd.

- Led frontend development for an AI-based chatbot using **React.js** and **Tailwind CSS**, delivering a responsive and user-friendly interface.
- Integrated **Firebase Authentication** and **Google services** to enhance platform security and streamline user access.
- Developed and connected **Django RESTful APIs**, enabling efficient communication between frontend and backend systems.
- Collaborated with backend developers, AI specialists, and project managers to meet technical and functional goals.
- Solved real-time issues and implemented optimizations to improve chatbot performance, scalability, and user satisfaction.

### Python Django Developer Intern

Aug 2023 - Mar 2024

#### Banao Technologies

- Developed and maintained high-performance backend services using **Django 4.2.6**, ensuring scalability and code efficiency.
- Built and managed **RESTful APIs** with **Django REST Framework (DRF 3.14.0)** for smooth data exchange between frontend and backend.
- Implemented secure user authentication using **JWT (djangorestframework-simplejwt)** and **OAuth 2.0** with **Google Sign-In**, improving access control and login experience.
- Integrated **AWS services** via **boto3** and **botocore**, and managed static/media files using **django-storages**, enabling efficient cloud storage workflows.
- Optimized **MySQL** and **PostgreSQL** databases using **mysqlclient** and **psycopg2**, ensuring reliable data management and improved query performance.
- Handled secure and environment-specific configuration using **django-environ** and **python-decouple**, streamlining deployment and reducing risk of credential exposure.

# PROJECT

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## Smart Disaster Alert & Response System

**Tech Stack:** Next.js, Django, PostgreSQL, OpenWeather, Mailtrap

- Developed a real-time disaster alert system to deliver timely emergency updates and manage relief resources.
- Integrated OpenWeather and Google Maps APIs to fetch live disaster and location data.
- Enabled location-based alerts and notifications to inform users in affected areas.
- Used Mailtrap for sending and testing emergency email alerts securely during development.
- Implemented SOS feature allowing users to send distress signals to registered help centers.
- Managed tracking of essential resources like food, water, shelter, and medical supplies.
- Built offline mode support to ensure users can access critical information without internet.
- Applied multithreading in Django backend to improve system responsiveness under load.
- Designed interactive frontend using React.js (web) and JavaFX (desktop).
- Used Firebase for real-time updates and MySQL for structured backend storage.

Feb 2025 – Apr 2025

## NyayDetect Game

**Tech Stack:** Next.js, Django, PostgreSQL

- Developed an interactive web-based gaming platform offering a seamless user experience.
- Utilized **Next.js** for building a fast, modern, and responsive frontend interface.
- Built a robust backend using **Django**, ensuring secure and scalable API integration.
- Employed **PostgreSQL** for efficient data storage and management of user and game data.
- Ensured smooth user interactions with features like real-time game updates and dynamic routing.
- Integrated frontend and backend for efficient data fetching and improved performance.
- Designed a mobile-friendly and visually appealing UI to enhance user engagement.
- Focused on scalability and responsiveness to handle future growth and feature expansion.
- Live Project: [neo-games.vercel.app](https://neo-games.vercel.app)

Nov 2024 – Feb 2025

## Hospital Management System

**Tech Stack:** Django, HTML/Bootstrap, JavaScript, PostgreSQL

- Developed a comprehensive web application to streamline hospital operations and administration.
- Implemented modules for managing **patients, doctor appointments, diagnostic tests, and pharmacy.**
- Designed separate user panels for **patients, doctors, staff, and admin** to ensure role-based access and functionality.
- Built with **Django** for backend logic and database integration, ensuring reliable performance.
- Created responsive and user-friendly UI using **HTML, Bootstrap, and JavaScript.**
- Enabled efficient **appointment scheduling** and **test management** through intuitive interfaces.
- Focused on enhancing the overall user experience while maintaining operational efficiency in healthcare settings.
- Ensured data integrity and security while handling sensitive medical and patient information.
- You can explore the project here: [GitHub Repository](#).

Mar 2023 – Jul 2023

# EDUCATION

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- **Lovely Professional University, Jalandhar, Punjab** 2024 - 2026
    - Master of Computer Applications – 72%
  - **Purnea College, Purnea , Bihar** 2020 - 2023
    - Bachelor of Computer Application - 75%