

# AGYANSHU KUMAR

Kolkata, West Bengal

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## Education

### Institute of Engineering & Management

B.Tech, Computer Science and Engineering — CGPA: 8.7

2023 – 2027

Kolkata, West Bengal

## Technical Skills

**Languages:** Python, JavaScript, TypeScript, Java, C, C++, SQL  
**Frontend:** React.js, Next.js, Tailwind CSS, Bootstrap, Redux, HTML5, CSS3  
**Backend:** Node.js, Express.js, Flask, REST APIs, GraphQL  
**Databases:** PostgreSQL, MongoDB, MySQL, Supabase, Redis  
**DevOps & Tools:** Docker, Git, GitHub, CI/CD, AWS, Vercel, Postman, Figma, Linux  
**Testing:** Jest, React Testing Library, Cypress

## Projects

### Rent-It-Hub | TypeScript, React.js, Tailwind CSS, Supabase, PostgreSQL, Docker, Razorpay | [Live](#) Feb 2026

- Built a full-stack peer-to-peer rental marketplace in TypeScript with item listing, advanced search, filtering, and user authentication using React and Supabase.
- Integrated Razorpay payment gateway for secure transactions; used PostgreSQL with row-level security for scalable, protected data access.
- Containerized the application with Docker and deployed on Vercel with a fully responsive UI across mobile and desktop.

### MediGuide-AI | TypeScript, React.js, Tailwind CSS, Python, Flask, MongoDB, OCR, NLP | [Live](#) Sep 2025

- Developed an AI-powered web platform that extracts medical insights from uploaded PDF/image reports using OCR and NLP techniques.
- Built RESTful Flask APIs for document processing and health summary generation; stored structured results in MongoDB for fast retrieval.
- Wrote unit and integration tests using Jest and React Testing Library; handled cross-origin API communication across separate cloud deployments.

### SmartFit Designer | Python, TensorFlow, OpenCV, Next.js, TypeScript, GraphQL In Progress

- Building a computer vision model to detect user body types from images and an AI engine (OpenAI API) to recommend outfits by body type and occasion.
- Developing a full-stack Next.js + TypeScript platform with GraphQL API, image upload, real-time inference, and a personalized recommendation UI.

## Internship

### Codesoft

Web Development Intern

Jul 2024 – Jul 2024

Kolkata, West Bengal

- Built responsive web pages using HTML, CSS, and JavaScript; collaborated on UI tasks as part of a structured internship program.

## Publication

A. K. Singh, R. K. Juhi, **A. Kumar**, R. Maiti, B. Ghosh. "Generative AI in Voice Transcription: A Comprehensive Survey." *ICRITO 2025*, IEEE. [ieeexplore.ieee.org/document/11365670](https://ieeexplore.ieee.org/document/11365670)

## Certifications & Achievements

- Advanced System Security Topics – Coursera Command Line in Linux – Coursera
- 5 Stars in C++ & Problem Solving – HackerRank Java, SQL – HackerRank

## Relevant Coursework

- Data Structures & Algorithms
- Database Management Systems
- Operating Systems
- Computer Networks
- Object-Oriented Programming
- Software Engineering