

# KARTIKAY SHUKLA

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## EDUCATION

- **Indian Institute of Information Technology, Kota** Aug 2023 – Present  
*B.Tech in Electronics and Communication Engineering* Rajasthan, India
- **Wendy Academy High School, Kanpur** Jul 2020 – May 2022  
*Indian School Certificate (ISC), 93%* Uttar Pradesh, India

## PROJECTS

- **DevLinkr – Smart Pair Programming and Networking Platform**  
**Tech Stack:** React (Vite), Node.js, Express, MongoDB, Socket.io, JWT, Judge0 API, Cloudinary
  - Engineered a full-stack platform enabling **real-time code collaboration** and skill-based developer matching, attracting 100+ users during beta testing and fostering meaningful tech connections.
  - Implemented **secure OTP-based signup** with JWT authentication and dynamic role-based dashboards (Student or Professional), ensuring a robust, seamless user experience.
  - Integrated **Monaco Editor** and Judge0 API for live code execution with latency under 150ms.
  - Deployed a microservice-based architecture using Vercel (frontend), Render (backend), and Cloudinary for scalable and automated deployment workflows.
- **CodeLens – AI-Powered Code Review Platform**  
**Tech Stack:** React, Node.js, Express, MongoDB, AI/ML APIs, GitHub OAuth, Stripe
  - Developed an **AI-driven code review platform** analyzing 12+ languages for quality, complexity, and maintainability.
  - Integrated **GitHub OAuth authentication** and a **freemium Stripe-based billing system** with real-time usage analytics and transaction tracking.
  - Reduced API response time by 35% through caching and efficient backend query optimization.
  - Delivered REST APIs for user management, code scoring, and export features with 99.9% uptime.
- **Hyrify – Full-Stack Job Search and Recruitment Platform**  
**Tech Stack:** React, Node.js, Express, MongoDB, JWT, Tailwind CSS, Clerk
  - Built a responsive full-stack job portal supporting **role-based dashboards** for recruiters and job seekers.
  - Designed and deployed **advanced job filters** (skills, experience, location) improving search relevance by 40%.
  - Integrated JWT authentication, CRUD APIs, and data persistence ensuring secure and scalable functionality.
  - Optimized load times by 25% using lazy loading and client-side caching on Vercel deployment.

## TECHNICAL SKILLS

- **Programming Languages:** C++, Python, Java, JavaScript, SQL, C
- **Frameworks and Libraries:** React.js, Node.js (Express.js), Tailwind CSS
- **Databases:** MongoDB, MySQL, PostgreSQL, Supabase
- **Tools and Platforms:** Git and GitHub, Postman, VS Code, Firebase, Vercel, Render, Netlify
- **Concepts:** REST APIs, WebSockets, JWT Authentication, OAuth (GitHub/Google), Basic System Design
- **Relevant Coursework:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems (OS)

## ACHIEVEMENTS AND LEADERSHIP

- Solved **150+ DSA problems** on LeetCode; actively improving algorithmic proficiency for SDE roles.
- **Competitive Programming:**
  - Achieved **3 star (Max Rating 1651)** on CodeChef; ranked among **Top 12 globally** in Starters 190 and secured multiple Top 100 finishes among 10,000+ participants.
  - Attained **Max Rating 1132 (Newbie)** on Codeforces; focusing on problem-solving optimization.
- **Leadership:** Senior Social Media Member, IIIT Kernel – led content outreach campaigns, managing strategy and boosting engagement by 40%.