Uttamraj Singh

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Education

Noida International University Aug. 2024 – Aug. 2028
Bachelor of Technology in Computer Science and Engineering (AI/ML) ***CGPA:*** *8.5/10*

Experience

CTO | Upchaar 360 (Own Startup) Aug. 2026 – Ongoing...

- Architected and developed the end-to-end technical infrastructure for a patient-doctor platform, bridging patient requirements with healthcare providers through a centralized CRM
- Designed a doctor-matching system that recommends and assigns patients to the most suitable available doctors based on disease, patient requirements, availability, and doctor ratings
- Built workflows for capturing and showcasing patient problems, managing doctor profiles and availability, and enabling post-consultation reviews and ratings
- Led the technical development as CTO, owning system architecture, CRM workflows, backend infrastructure, and scalable integration of core platform components

AI Developer Intern | Bitlance Tech Hub June. 2026 – Ongoing...

- Engineered AI agents and end-to-end AI pipelines to automate business workflows and improve process efficiency
- Built multimodal AI agents for graphic design, social media automation, and voice-based customer interactions
- Developed AI-powered CRM workflows for lead management, customer engagement, and automated task execution
- Collaborated with an international team to integrate and deploy scalable AI solutions across real-world use cases

Full-Stack Developer Intern | QUANTA Innovation(African based Startup) Aug. 2025 – Dec. 2025

- Developed and deployed full-stack web applications using React, Node.js, Express, and MongoDB
- Collaborated with international team to deliver scalable solutions for African markets
- Implemented responsive UI components and RESTful APIs for enhanced user experience

Projects

AcadX | *Postgress, Next.js, Node.js, express.js* (Live Link) Mar. 2026—June. 2026

- Developed a full-stack Learning Management System using the PostgreSQL, Express.js, Next.js, and Node.js for seamless academic interaction between students and teachers
- Implemented student-teacher communication and doubt-resolution workflows, enabling students to raise academic queries and receive responses from instructors
- Designed role-based workflows for students, teachers, and administrators to manage courses, learning content, academic queries, and user interactions
- Built RESTful APIs and database-driven backend services to support scalable course management, user authentication, and real-time academic workflows

Aspirant-Saathi | *react.js, express.js, node.js, mongoDB* (Live Link) Feb. 2026—Mar. 2026

- Developed Aspirant-Saathi, an AI-powered web platform delivering instant examiner-style answer evaluation, reducing manual review time from hours to under 10 seconds.
- Built a full-stack application using React, Node.js, Express, and MongoDB to enable submission and structured assessment of typed or handwritten answers.
- Integrated generative AI (Gemini 2.5 Flash) to auto-evaluate responses and generate topper-level model answers with structured rubric scoring in real time.
- Designed a secure, scalable platform with JWT auth, OTP email verification (<30 sec delivery), and analytics dashboards tracking daily submissions and progress trends.

Technical Skills

Languages: C, Python, MATLAB, SQL, JavaScript, TypeScript, HTML5, CSS3
Frameworks & Libraries: React, Next.js, Node.js, Tailwind CSS, FastAPI, restAPI, Langchain, 3JS
Databases and Tools: MySQL, mongoDB, postgreSQL
Developer Tools: Git, GitHub, VS Code, postman, Docker, Zerniu, meta library

Achievements/Extra-curricular

- Secured 2nd prize in a campus project exhibition for developing Samadhan Setu, an ongoing AI-powered civic redressal platform designed to streamline public grievance reporting and resolution. (Feb. 2026)
- As Google Campus Ambassador engaged and mentored campus learners by demonstrating real-world AI use cases, strengthening technical communication, leadership, and community outreach skills. (Oct. 2025–Feb.2026)
- Served as Campus Ambassador for HackWithIndia, organizing a hackathon and technical webinar that fostered student participation, innovation, and collaborative problem-solving. (Oct. 2025–Jan.2026)
- Contributed to open-source projects through Social Summer of Code, collaborating on real-world codebases and improving development, version control, and teamwork skills.
- Ranked in the Top 50 out of 500 participants at Hackemon Hackathon, showcasing strong problem-solving and rapid prototyping skills in a competitive environment.
- Actively participated in multiple hackathons and technical competitions and earned certifications from various courses like ML, SQL, MERN etc. demonstrating continuous learning and strong practical problem-solving skills.