

Roushni Sinha

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PROFESSIONAL SUMMARY

Aspiring Web Developer and AI enthusiast with hands-on experience in full-stack development, including frontend and backend technologies such as AngularJS, Next.js, MongoDB, and TypeScript. Currently pursuing a Master's in Computer Application with a focus on Artificial Intelligence, IoT, and Cloud Computing. Proven ability to independently manage projects, implement user-centric features, and leverage AI tools to create innovative solutions. Skilled in JavaScript, React, Node.js, and AI model integration, aiming to contribute to impactful tech projects and continuously enhance technical expertise.

Internship EXPERIENCE

Web Development Intern – NullClass

Dec 2025 – Present | Remote

- Developing user-generated content and community features including forums, discussion boards, and social media integration to foster traveler engagement using AngularJS and Next.js with TypeScript.
- Implementing an advanced notification system delivering real-time updates via email, SMS, and push notifications, ensuring timely communication for bookings and promotions.
- Building multi-language support through internationalization (i18n) to provide seamless language selection and UI translation.
- Creating an interactive route planning tool integrating mapping APIs for real-time traffic updates and alternative route suggestions.
- Designing and implementing a dark mode toggle with persistent user preferences to enhance user experience.
- Developing a rating and review system for bus routes to collect user feedback and display aggregated ratings.
- Managing end-to-end frontend and backend development independently using MongoDB, Google Sign-In, CSS Grid, animations, JavaScript, and AngularJS.
- Following best practices in code quality, version control, and project management as a solo developer.

AI Internship – Bolt IoT

Aug 2025 – Sep 2025 | remote

- Custom ChatGPT: Successfully implemented a ChatGPT-based project, demonstrating the ability to leverage natural language processing and machine learning for creating conversational agents.
- Custom Recipe Generator: Developed a custom recipe generator as a practical project, showcasing skills in AI application development for personalised content generation.
- DALL-E Image Generation: Applied knowledge in working with DALL-E, a state-of-the-art image generation model, and built an image generation tool to explore and demonstrate expertise in advanced AI technologies.
- Telegram Image Bot with OpenAI: Executed the integration of OpenAI technologies into a Telegram image bot, demonstrating proficiency in leveraging AI for real-world applications and enhancing user experience.

DevOps Internship – Solar Secure Solutions

Oct 2024 – Dec 2024 | virtual

- Completed a 2-month DevOps internship, focusing on hands-on learning with real-world workflows and tools.
- Gained practical experience with CI/CD, Git, Docker, and infrastructure automation.
- Built and deployed applications using DevOps pipelines with tools like Jenkins and GitHub Actions.
- Developed a strong foundation in DevOps practices and problem-solving skills.

Full Stack Web Developer – Solar Secure Solutions

Oct 2024 – Jan 2025 | virtual

- Completed a 3-month Full Stack Developer internship at Solar Secure Solutions.
- Gained practical experience with HTML, CSS, JavaScript, and Node.js.
- Built end-to-end applications and contributed to multiple project modules.
- Received an "Excellent" rating for consistent performance and contributions.

Technical Skills

Languages: JAVA, PYTHON, HTML, CSS, JAVASCRIPT, REACTJS, LINUX, NODEJS, ARDUINO, ARTIFICIAL INTELLIGENCE

Version Control: GIT, GITHUB

Database: MONGODB, NEONDB, SUPABASE

Other Tools: FLUTTER, GOOGLE APP ENGINE, KUBERNETES, LOGGING AND MONITORING, IAM ADMINISTRATOR GCP, KALI LINUX, GOOGLE COLAB, JUPYTER

EDUCATION

PATNA WOMEN'S COLLEGE / PATNA UNIVERSITY – Patna, Bihar, India

Jul 2026

Masters Of Computer Application (MCA)

Major in Computer Application; Minors in Artificial Intelligence, IOT and Cloud Computing. GPA: 7.86/10.0. Relevant Coursework: Software Engineering; Advanced DBMS; Computer Networks and Security; Design and Analysis; Lab on Responsive Web Pages; Statistical and Numerical Computing; Object Oriented Analysis and Design; Distributed Computing; Optimization Techniques; Compiler Design; Advanced Web Designing; Data and Web Mining.

J.D. WOMEN'S COLLEGE / PATLIPUTRA UNIVERSITY – Patna, Bihar, India

Dec 2021

Bachelors in Computer Application (BCA)

Cumulative GPA: 7.1/10.0. Relevant Coursework: C; C++; JAVA; Operating System; Computer Network; Data Structures and Algorithm; Visual Basic 6.0; Computer Architecture; Computer Aided Design.

VOLUNTEERING & LEADERSHIP

Team Leader – College Mini Project - QuickAI SaaS Platform

Jul 2025 – Nov 2025 | Patna, Bihar, India

- Managed complete project lifecycle from requirement analysis to deployment for QuickAI SaaS Platform, leading a team of 4 developers including frontend, backend, and AI engineers.
- Designed and implemented microservice-based system architecture, integrating frontend, backend, and AI services for seamless operation.
- Developed core REST APIs for authentication, payment integration, and AI request handling, optimizing backend performance by 35% with Redis caching.
- Organized and led weekly sprints using Trello and GitHub Projects, ensuring timely task assignment, progress tracking, and blocker resolution.
- Conducted daily stand-ups and code reviews, maintaining high code quality and resolving merge conflicts efficiently.
- Led Docker-based deployment and cloud configuration, reducing deployment errors by 40% through CI/CD automation.
- Coordinated with project mentors and peer reviewers for requirement validation, feedback, and performance testing.
- Delivered the platform 20% ahead of schedule by streamlining development workflows and enhancing team productivity.
- Overcame challenges in remote team coordination, AI integration debugging, and scaling issues by implementing structured sprint planning and centralized troubleshooting.

UNIVERSITY PROJECTS & PERSONAL PROJECTS

SMART HOME AUTOMATION

Aug 2024 – Feb 2025

- Developed a Smart Home Automation System using Arduino and Bluetooth, creating a mobile app with MIT App Inventor for remote control of appliances.
- Programmed Arduino Uno in C/C++ to process Bluetooth signals and built a circuit with LEDs and an HC-05 module for real-world simulation, optimizing communication for reliability.
- Explored future enhancements like IoT integration and voice control.

QuickAI SaaS Platform

Jul 2025 – Nov 2025

- Developed QuickAI, a full-stack AI platform integrating Google Gemini, Clipdrop, and Cloudinary for content tools including article writing, blog title generation, image creation, background/object removal, and resume review, reducing production time by 10x.
- Implemented Clerk authentication for secure user management and subscription tiers, enabling seamless access across all AI tools with a freemium model.
- Designed main dashboard and home page using React 18, featuring real-time analytics, responsive design, and navigation for content generation, image processing, and community features.

AI Shorts Generator - Full-Stack SaaS Platform

- Developed end-to-end AI video generation platform using Next.js 15, React 19, and TypeScript that automatically creates 30-second professional videos from user prompts through integrated AI services (OpenAI GPT-4, ElevenLabs, Replicate, AssemblyAI).
- Architected scalable queue-based processing system with BullMQ, Redis, and AWS Lambda for background video rendering, handling concurrent user requests and ensuring optimal performance under high load.
- Implemented comprehensive payment integration with Stripe for subscription management and credit-based monetization, including webhook handling, user authentication via Clerk, and PostgreSQL database management with Prisma ORM.
- Built production-ready cloud infrastructure with AWS S3 storage, Remotion Lambda rendering, automated video processing pipeline, and responsive UI using Tailwind CSS and modern React patterns for seamless user experience.
- Technical Stack: Next.js, React, TypeScript, PostgreSQL, Prisma, Redis, AWS, Stripe, Clerk, Tailwind CSS, BullMQ, Remotion Lambda.

CERTIFICATIONS

Architecting with Google Kubernetes Engine: Foundations – Coursera	Jun 2024
Getting Started with Google Kubernetes Engine – Coursera	Jun 2024
Google Cloud Fundamentals: Core Infrastructure – Coursera /Google Cloud	Jun 2024
Logging and Monitoring in Google Cloud – Coursera / Google Cloud	Jun 2024
Reliable Google Cloud Infrastructure: Design and Process – Coursera / Google Cloud	Jun 2024
Blockchain Expert Certificate of Completion from AlgoExpert.io – AlgoExpert	Jun 2024
DSA with JAVA from APNA COLLEGE LPU – ApnaCollege	Mar 2024
Salesforce Developer Virtual Internship by SmartInternz – SmartInternz	Oct 2023
Bolt IoT - Artificial Intelligence training completion certificate – Bolt IoT	Sep 2025
Certification of Presentation AICTE VAANI AI and DATA SCIENCE - CATALYST for VIKSIT BHARAT – PATNA WOMEN'S COLLEGE	
Oct 2025 – 01/2024	
Certification of Completion Bootcamp on "Cyber Security and Network Analysis" – (NIELIT) National Institute of Electronics & Information Technology Patna	
01/2023 – 01/2024	