

Arpan Ghosh

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Kolkata, West Bengal, India

EDUCATION

University of Engineering & Management (UEM) Kolkata, West Bengal
Bachelor of Technology in Computer Science & Engineering (Artificial Intelligence) July 2024 – Present

- Relevant Coursework: Data Structures, Algorithms, Artificial Intelligence, Machine Learning

EXPERIENCE

Web Development Intern May 2025 – Present
DAS Solutions Kolkata, India

- Developed scalable web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js) for enterprise clients, ensuring responsive design and cross-browser compatibility.
- Created and integrated RESTful APIs and third-party services to enhance application capabilities and data flow.
- Collaborated with cross-functional teams, maintained code versioning and feature branches using Git.
- Optimized frontend performance — improved load times and decreased bundle size via code-splitting and lazy-loading.

PROJECTS

Codnex — CLI Tool for Coding Practice Management (*TypeScript, Commander, Inquirer, Chalk*) 2025

- Built a CLI tool using AI tool to organize and document algorithmic problem-solving across repositories, with metadata tagging (difficulty, topic, time complexity) and progress tracking.
- Automated README generation, directory structure creation, and summary statistics through command-line interface to streamline practice workflow.

AlgoVaultX (*TypeScript, Next.js, Tailwind CSS*) 2025

- Built a modern, responsive web UI enabling users to browse, search, and interact with a centralized repository of structured coding problems and solutions.
- Utilized Next.js + Tailwind CSS to implement a fast, mobile-friendly frontend with intuitive navigation and clean design.
- Integrated metadata-driven listing (difficulty, topic, tags, time complexity) to allow filtered and organized presentation of problems — improving discoverability and usability.
- Structured frontend code and project architecture to ease future extensibility (e.g. adding search, sorting, user bookmarking) and maintainability.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL, C
Web & Frameworks: React.js, Next.js, Node.js, Express.js, FastAPI, HTML5, CSS3, REST APIs
Databases: MongoDB, PostgreSQL
AI/ML Tools: Pandas, NumPy, (familiar with Scikit-learn)
Developer Tools & Environments: Git, GitHub, VS Code, Postman, WSL/Linux
Core Competencies: Data Structures & Algorithms, Full-stack Web Development, Command-line Tools

CERTIFICATIONS

React Basics (Meta) | Introduction to Artificial Intelligence | The Joy of Computing using Python (NPTEL)

LEADERSHIP & ACHIEVEMENTS

Built strong foundation in MERN stack development with hands-on project experience.