

# Arpan Ghosh

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Kolkata, West Bengal, India

## EDUCATION

<b>University of Engineering &amp; Management (UEM)</b> <i>Bachelor of Technology in Computer Science &amp; Engineering (Artificial Intelligence)</i>	Kolkata, West Bengal
	July 2024 – Present

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

## EXPERIENCE

<b>Web Development Intern</b> <i>DAS Solutions</i>	May 2025 – Present Kolkata, India
<ul style="list-style-type: none"><li>• 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.</li><li>• Created and integrated RESTful APIs and third-party services to enhance application capabilities and data flow.</li><li>• Collaborated with cross-functional teams, maintained code versioning and feature branches using Git.</li><li>• Optimized frontend performance — improved load times and decreased bundle size via code-splitting and lazy-loading.</li></ul>	

## PROJECTS

<b>Codnex — CLI Tool for Coding Practice Management</b> ( <i>TypeScript, Commander, Inquirer, Chalk</i> )	2025
<ul style="list-style-type: none"><li>• 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.</li><li>• Automated README generation, directory structure creation, and summary statistics through command-line interface to streamline practice workflow.</li></ul>	
<b>AlgoVaultX</b> ( <i>TypeScript, Next.js, Tailwind CSS</i> )	
<ul style="list-style-type: none"><li>• Built a modern, responsive web UI enabling users to browse, search, and interact with a centralized repository of structured coding problems and solutions.</li><li>• Utilized Next.js + Tailwind CSS to implement a fast, mobile-friendly frontend with intuitive navigation and clean design.</li><li>• Integrated metadata-driven listing (difficulty, topic, tags, time complexity) to allow filtered and organized presentation of problems — improving discoverability and usability.</li><li>• Structured frontend code and project architecture to ease future extensibility (e.g. adding search, sorting, user bookmarking) and maintainability.</li></ul>	

## 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.