

# ARNAB MUKHERJEE

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## TECHNICAL SKILLS

**Frontend & Languages:** Next.js, JavaScript (ES6+), TypeScript, C, C++, HTML5, CSS3

**Backend :** Node.js, Express.js, FastAPI, REST APIs, JWT, Role-Based Access Control (RBAC)

**Databases & Caching :** MongoDB, Redis, Database Design, Indexing

**Developer Tools/Others :** Git, GitHub, Postman, VS Code, Blockchain, Solana Metaplex

## PROFESSIONAL EXPERIENCE

### Junior Full Stack Web Developer | Aam Pannaa Creations (Remote) July 2025 – Present

- Delivered 3+ production-grade web platforms for EdTech and Corporate CA clients (including [ClayLab](#) and [Lagum Advisors](#)). ([See full project case studies at Portfolio](#))
- Engineered high-performance UIs for clients like [Lagum Advisors](#), implementing **SEO best practices** and responsive design to ensure cross-device accessibility.

## PROJECTS

### DocsPlus ↗ | Next.js, TypeScript, MongoDB, React-PDF, Nodemailer November 2025

- Developed an enterprise-grade **HR Document Automation Platform** that generates dynamic Invoices, Offer Letters, and Salary Slips.
- Engineered an automated pipeline for **PDF generation & email delivery**, reducing manual HR paperwork processing time by 60%
- Implemented **Role-Based Access Control (RBAC)** using NextAuth middleware to secure Admin and Employee dashboards, ensuring strict data privacy.
- **Hardened application security** by implementing **HTTP-Only cookies** and **Edge-compatible JWTs** mitigating XSS risks and ensuring serverless scalability.
- [Live site here](#)

### DegreeNFT ↗ | React, MongoDB, TailwindCSS, Solana, Metaplex June 2025

- Developed a decentralized academic credentialing platform on the **Solana blockchain**, utilizing the **Metaplex Token Metadata standard** to ensure certificate immutability and verifiability.
- Automated the full on-chain issuance pipeline, including **IPFS metadata** handling, **Umi NFT creation**, and metadata account linkage.
- Engineered a scalable **React and TailwindCSS** interface integrated with a **Node.js** backend, enabling **real-time wallet interaction** and seamless **NFT minting workflows**.
- Delivered a robust system for transparent and **tamper-proof** academic verification, enhancing institutional credibility and recipient ownership.
- [Live site here](#)

### PassVault ↗ | React, MongoDB, RedisDB, AES-GCM, FastAPI February 2025

- Designed and implemented a **zero-knowledge password management system** leveraging AES-GCM encryption and PBKDF2-based key derivation to uphold client-side data privacy.
- Built a secure, responsive UI with **React and TailwindCSS**, connected to a **FastAPI**, **MongoDB** backend and **RedisDB** to support **session-bound encryption workflows**.
- Enforced **advanced cryptographic practices** ensuring no sensitive credentials or **master keys were ever transmitted or stored server-side**.
- Delivered a fully isolated, self-contained security solution that **empowers users with complete control** over credential access and confidentiality
- [Live site here](#)

## LEADERSHIP & ACHIEVEMENTS

- Served as **Google Developer Student Club (GDSC) Lead 2024-25, BCET ↗**

- Web Team Member of **GDG Durgapur ↗** Contributed to community website development

- Member of **IETE Kolkata ↗**

- Governor at **CodeVision Club ↗** Managed technical sessions and club activities at BCET

## EDUCATION

### Bengal College Of Engineering and Technology

Bachelor Of Technology - CGPA:7.5/10

June 2022 – present

Durgapur, India