

# Arnab Saha

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## EDUCATION

- Indian Institute of Engineering Science and Technology, Shibpur  
*Bachelor of Technology - Computer Science and Technology | CGPA: 7.51*  
Howrah, India  
Nov 2020 - June 2024

## EXPERIENCE

- PricewaterhouseCoopers (PwC)  
*Associate Consultant (Advisory Line Of Service)*  
Kolkata, India  
Aug 2024 – Present
  - Global Assurance Portal:** Enhanced PwC's **Global Assurance Portal**, a key platform supporting global assurance workflows and collaboration.
  - API Refactoring:** Refined real-time **WebSocket-based APIs** into scalable **RESTful APIs**, improving maintainability and robustness of backend services.
  - Impact:** Optimized communication architecture and enhanced performance by transitioning to **RESTful architecture**, elevating team productivity and client usability.
- Grevelops  
*Full Stack Web Developer*  
Remote  
Mar 2023 – Apr 2024
  - Spot Garage Platform:** Expanded and maintained the **full-stack web platform** for Spot Garage, incorporating the Client, Vendor, and Admin Panels, streamlining service booking, vendor coordination, and centralized admin control.
  - Tech-stack:** Leveraged **React, TypeScript, TailwindCSS, Node.js, Express, and MongoDB** to construct scalable components with clean UI and efficient RESTful APIs. Integrated third-party services and fine-tuned application performance.
  - Impact:** Refined platform efficiency and **user experience**, driving smoother operations and increasing client satisfaction.
  - Proof of Work:** Certificate of Experience

## PROJECTS

- CHAT APP – Real-Time Chat Application (React | TypeScript | Node.js | WebSockets | Express | Prisma):
  - Description:** Created a **real-time web chat application** using WebSockets for messaging and notifications, featuring a modern UI.
  - Real-Time Features:** Implemented real-time messaging with support for **chat rooms**, push notifications, and dynamic room creation/join/leave using WebSockets.
- Links:** [GitHub](#)   [Live Demo](#)   [Demonstration Video](#)
- BRAINLY – Full-Stack Content Sharing App (React | TypeScript | TailwindCSS | Node.js | MongoDB | Recoil):
  - Description:** Built a full-stack web app for managing and sharing **tweets, videos, and links** with a modern UI.
  - Authentication:** Implemented secure **JWT-based authentication** and protected content APIs using Node.js, Express, and MongoDB.
  - Content Management:** Introduced dynamic content features: **add, delete, filter, and preview** links (YouTube, Twitter).
  - Shareable Links:** Optimized **public/private toggling**, and created unique URLs for shared content.
- Links:** [GitHub](#)   [Live Demo](#)   [Demonstration Video](#)
- DRAW TOGETHER – Real-Time Collaborative Whiteboard (Next.js | TypeScript | Prisma | WebSockets | Express | Turborepo):
  - Description:** Engineered a **collaborative whiteboard** app that enables multiple users to draw on a shared canvas with real-time synchronization.
  - Real-Time Collaboration:** Facilitated **room-based sessions** and drawing synchronization using WebSockets and Prisma.
  - Authentication & Architecture:** Secured authentication via **NextAuth**, and employed a modular **Turborepo** structure for scalability.
- Links:** [GitHub](#)   [Live Demo](#)   [Demonstration Video](#)

## CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900) Certification Link
- Microsoft Certified: Azure Administrator Associate (AZ-104) Certification Link
- Microsoft Certified: Azure Solutions Architect Expert (AZ-305) Certification Link

## SKILLS

- Programming Languages:** Python, JavaScript, TypeScript, SQL
- Web Development:** React, Next.js, Node.js, Express, TailwindCSS, Prisma, MongoDB, PostgreSQL, WebSockets
- Cloud Technologies:** Microsoft Azure, Azure DevOps, Azure Kubernetes Service (AKS), Azure Functions, Azure Storage
- Tools and Frameworks:** Git, Docker, Vite, Jenkins, Terraform, Nginx, Cloudinary, Stripe, Clerk Authentication
- Other Skills:** Problem Solving, Agile Development, RESTful APIs, JWT Authentication, CI/CD Pipelines, Cloud Security