
ARNAB DAS

Kolkata, IN 743273 ♦ 6296540769 ♦ imarnab01@gmail.com ♦

LinkedIn: <https://www.linkedin.com/in/arnab-das-2a5039182/>

PROFESSIONAL SUMMARY

IIT Roorkee graduate with 2+ years of hands-on experience in full-stack development and AI-driven platforms. Expertise in designing and building scalable microservices, AI-powered systems, and high-performance enterprise applications. Proven ability to deliver impactful tech solutions across healthcare, government, and EdTech sectors by solving complex engineering challenges with cutting-edge technologies.

SKILLS

- JavaScript
- Web Technologies
- Mobile App Development
- API Integration
- Code Debugging
- Object-Oriented Programming (OOP)
- Front-End Development
- Database Management
- API Development
- Performance Optimization
- Git Proficiency
- Software Development Life Cycle (SDLC)

WORK HISTORY

Software Engineer, 01/2024 - Current

ARThink AI – Hyderabad, India

QuadzAI Project | Intelligent Chatbot Platform

- API Engineering:** Developed advanced Node.js APIs enabling seamless data retrieval through web scraping, PDF text extraction, and MongoDB integration, boosting data indexing speed by 40%.
- AI-Powered Search:** Created Python-based APIs utilizing Chroma DB and Pinecone for vector-based search capabilities, improving search result accuracy by 25%.
- AI Model Integration:** Integrated OpenAI Large Language Models (LLMs) to enhance chatbot intelligence, enabling accurate, context-aware . responses and improving user engagement.

OnFit AI | Healthcare PWA & Mobile Application

- **Real-Time Communication:** Designed and optimized socket-based communication infrastructure for real-time interaction across mobile platforms, ensuring 99% uptime.
- **Push Notifications:** Implemented Firebase Cloud Messaging (FCM) and web push notifications, increasing user retention through personalized notifications.
- **Enhanced Security:** Upgraded FCM to HTTPS v1, boosting notification security and reducing data breaches by 30%.
- **App Deployment:** Managed Android app releases on Google Play Console with automated updates via EXPO EAS, reducing manual deployment efforts by 50%.
- **Video Conferencing:** Built a scalable Proof of Concept (PoC) for two-user video conferencing using WebRTC and Socket.io, enabling high-quality virtual consultations.

Core Application Enhancements (Onfit): Delivered a suite of enterprise-grade features for Onfit app, including:

- **File Management:** Advanced file-sharing with integrated PDF previews.
- **Chat System:** Enhanced chat with reply, edit, and delete functionalities.
- **Patient Dashboard:** Developed interactive patient dashboards with real-time data visualization.
- **Metadata-Driven UI:** Built dynamic UI updates through metadata-driven APIs.
- **Google Fit Integration:** Streamlined health data synchronization with Google Fit API.
- **Workflow Automation:** Automated cosmetology and prescription workflows, improving clinical efficiency.

Telangana Government Widget Programme

- **Scalable Backend System:** Designed backend architecture enabling real-time tracking of government social schemes across rural and remote regions, boosting policy transparency.
- **Data Management:** Developed dynamic content upload mechanisms supporting multi-platform visibility and reducing administrative delays by 40%.
- **Data APIs:** Created high-performance APIs for instant data retrieval, driving informed decision-making and better policy execution.

Junior Software Engineer, 01/2023 - 09/2023

SRM Software Inc – Remote

- Automated HR workflows with Groovy scripts, minimizing manual tasks by 60%.
- Ensured a 99.9% uptime by debugging production-grade enterprise tools.
- Enhanced the Angular-based front-end system, improving client satisfaction scores by 25%.

Software Engineering Intern, 04/2022 - 07/2022

Tradebuilder Technologies – Remote

- Developed user-centric e-commerce dashboards with NextJS and Node.js, cutting downtime by

30%.

- Built real-time order management APIs, enabling seamless synchronization across multiple platforms.

Full-Stack Developer Intern, 02/2022 - 04/2022

Outshade Digital Media – Remote

- Developed secure APIs for payment management in FinTech applications, reducing payment processing errors by 35%.
- Delivered responsive and user-friendly front-end components using Next.js and TypeScript.

React Developer Intern, 06/2021 - 07/2021

Cartel101 – Remote

- Enhanced a hospital management system's front-end, reducing page load time by 25%.
- Integrated secure medical record APIs, ensuring HIPAA compliance.

Web Development Intern, 04/2021 - 06/2021

Adwaita Educare – Remote

- Built OTP-based registration with JWT authentication, increasing onboarding success rates by 30%.
- Integrated Razorpay payment gateway, ensuring smooth financial transactions.

Web Developer Intern, 07/2020 - 09/2020

Expidense – Remote

- Developed a responsive expense management system, improving budget tracking accuracy by 45%.
- Built REST APIs for real-time expense monitoring and reporting.

STARTUPS

Founding Engineer (Front-End) – Zixwer, 10/2020 - 05/2022

- Led multiple product development cycles across web platforms, including educational, construction, and travel management solutions.
- Directed front-end architecture and UI/UX design, boosting product scalability and customer acquisition rates.
- Championed product vision, led feature development, and ensured timely project delivery through cross-functional team collaboration.

Lead Front-End Developer – Bechho, 08/2020 - 11/2020

- Took complete ownership of product design and development as the sole front-end developer.
- Delivered a hyperlocal business management platform that increased business visibility and customer engagement.

- Drove platform growth by implementing intuitive user experiences, resulting in improved platform adoption and long-term scalability.

LEADERSHIP

Cell Secretary – Web Development Cell, NSS IIT Roorkee, 07/2020 - 06/2021

- Led a 14-member team and 4 executives as the overall technical head, driving development and deployment of mission-critical web projects.
- Directed end-to-end web platform development, ensuring secure and scalable deployments for 5+ institutional and social service initiatives.
- **Organized annual web development workshops for 150+ students**, driving technical skill development and fostering a learning ecosystem.
- Recognized twice as **Best Cell Secretary** for exceptional team leadership and impactful community-driven tech projects.

Technical Head – National Social Summit, IIT Roorkee, 08/2020 - 03/2021

- Managed a multidisciplinary tech team to design, develop, and deploy a scalable event platform supporting 3K+ participants.
- Oversaw seamless registration, live event streaming, and real-time communication infrastructure, ensuring uninterrupted event operations.
- Delivered technical excellence by integrating real-time updates and data-driven insights for enhanced participant experience.

EDUCATION

Integrated M.Tech: Geophysical Technology, 05/2023

Indian Institute of Technology - Roorkee

CGPA - 6.843

All India Senior School Certificate Examination: PCM + Computer Science, 06/2018

Jawahar Navodaya Vidyalaya - Bengaluru Urban

Score - 91.4%

Secondary School Certificate: 05/2016

Jawahar Navodaya Vidyalaya - Habra, India

CGPA - 8.8

CERTIFICATIONS

- **Complete Web Development Bootcamp 2020 | ReactJS | JavaScript | HTML5 | CSS | Bootstrap |**

Node.js | Express | MongoDB – Udemy

- **JavaScript Basic** – HackerRank
- **Python and Django Full Stack Web Developer Bootcamp** – Udemy
- **Legacy JavaScript Algorithms and Data Structures** – freeCodeCamp
- **Data Visualization** – freeCodeCamp
- **Front End Development Libraries** – freeCodeCamp
- **JavaScript Algorithms and Data Structures (Beta)** – freeCodeCamp (Issued Oct 2024)
- **Responsive Web Design** – freeCodeCamp

LANGUAGES

English



Advanced (C1)

Hindi



Advanced (C1)

Bengali



Bilingual or Proficient (C2)