Debarshi Polley

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Early-career software engineer with approximately one year of hands-on experience, transitioning from mechanical engineering and investment consulting into software engineering. Experienced in building and deploying frontend applications using JavaScript, React, TypeScript, and Tailwind CSS, with exposure to state management, testing, and CI/CD workflows. Currently developing full-stack capabilities using Next.js and NodeJS based stacks like MERN and PERN, with a strong focus on practical implementation and continuous skill development.

TECH STACK

- **Frontend:** React.js, Next.js, JavaScript, TypeScript, Tailwind CSS
- **Backend & Database:** Node.js, Express.js, SQL, MongoDB, REST APIs, Appwrite
- **Testing & Tools:** Jest, Jasmine, React Testing Library, Git, Vite, Vitest, Netlify, Zustand, GitHub Actions, CI/CD pipelines
- **Other Skills:** Tableau, R, Python (intermediate), AWS (basic), Microservices architecture (basic), MATLAB

PROJECTS

EdgeAI SaaS Landing Page — React, TypeScript, Tailwind CSS, Zustand   Live Demo | GitHub
- Built a responsive AI Saas landing page using React and TypeScript with scalable component structure.
- Implemented application state management using Zustand, including a dark mode toggle and UI state logic.
- Deployed via Netlify with version control using Git and GitHub.

MovieFlix Mobile Movie App (Android) — React Native, Expo, TypeScript, Appwrite   APK file | GitHub
- Developed a cross-platform mobile application with user authentication and persistent user data.
- Integrated external movie APIs for search and discovery functionality.
- Implemented user-specific saved collections using Appwrite backend services.
- Built and distributed the application as an installable Android APK.

Brainwave AI SaaS Landing Page — React, Tailwind CSS   Live Demo | GitHub
- Built a responsive, multi-section SaaS landing page with modern UI patterns.
- Implemented interactive animations and smooth scrolling for improved user experience.
- Deployed via Netlify with version control using Git and GitHub.

HooBank Modern Web App — React, Tailwind CSS, Vitest, CI/CD   Live Demo | GitHub
- Developed a responsive fintech-style web interface following a component-based architecture.
- Implemented unit and component tests to validate UI behaviour.
- Configured automated test execution with Vitest via GitHub Actions, gaining hands-on exposure to CI/CD workflows.

WORK EXPERIENCE

P.R. Engineering Works   **Bristol, UK & Kolkata, India**

Investment Consultant | Bristol, UK   Sep 2024 – Jul 2025
- Facilitated discovery workshops to gather functional and technical requirements, ensuring alignment with user journeys and system capabilities increasing productivity by 19%
- Partnered with IT and Operations to implement digital dashboards and process automation tools, supporting user testing, improving adoption, and enhancing overall user experience improving customer feedback KPIs by 24%

Investment Analyst | Kolkata, India   Jan 2022 – Aug 2023
- Introduced stocks and commodity investment strategies, creating new revenue streams with 20% ROI in two quarters.
- Integrated financial insights into operational planning, leading to a 9% cost reduction.

EDUCATION AND QUALIFICATIONS

University of Bristol   **Bristol, UK**

MSc Management | Grade: 2:1 (Upper Second Class)   Sep 2023 – Aug 2024
- Core modules: Operations & Marketing Management, Management & Organization, Finance & Accounting.
- Recipient of the honorary Bristol Plus Award for academic excellence and extracurricular activities.

Dayananda Sagar College of Engineering (Visvesvaraya Technological University)   **Bangalore, India**

BE Mechanical Engineering | CGPA: 7.41 (74.1%)   Aug 2018 - Jul 2022
- *Gold Medallist* at the *Annual Technical Seminar 2022* for individual presentation on Renewable Energy Sources
- 1st position at *Open Day Final year Project Presentation* for group project and presentation on Chassis Design

Academic Certifications:
- **Bristol Plus Award** – University of Bristol   Mar 2024
- **Google** – Google Data Analytics Professional Certificate   Jul 2023