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:** HTML5, CSS3, JavaScript (ES6+), TypeScript, React.js, React Router, React Hooks, React Native, Next.JS Tailwind CSS, ShadCN
- **Backend & Database:** Node.js, Express.js, REST APIs, MongoDB, Appwrite(Database and Auth)
- **Testing & Tools:** Jest, React Testing Library, Git, Vite, Vitest, Netlify, Zustand, GitHub Actions, CI/CD pipelines

FEATURED PROJECTS

Hushed Ink on Paper – Blog Platform   Live Demo | GitHub
- Developed a scalable blog platform using Next.js and TypeScript, prioritizing performance, maintenance, and type safety.
- Integrated Sanity.io as a headless CMS to enable non-technical content publishing without code interaction.
- Utilized Tailwind CSS, ShadCN, and Zustand to build a modular frontend architecture for long-term content growth.

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 functionality, implemented 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

Freelance   **Bristol, UK**
Software Engineer (Frontend)   Jul 2025 – present
- Built and deployed production-ready web and mobile applications using React, React Native, TypeScript, and Tailwind CSS, focusing on scalable component design and user experience.
- Implemented authentication, API integrations, state management, and CI/CD workflows using Appwrite and modern frontend tooling.

P.R. Engineering Works   **Bristol, UK**
Investment Consultant | Bristol, UK   Aug 2024 – Sep 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