Bikash Agarwala

Full Stack Developer — Software Engineer

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LinkedIn — GitHub — Portfolio

EDUCATION

Asansol Engineering College   West Bengal, India
B.Tech in Information Technology — GPA: 7.8   *2022 – 2026*

EXPERIENCE

Software Development Engineer   Komfy Trip LLP
Remote   *Aug 2024 – Nov 2025*

- **Spearheaded the end-to-end technical development for all core business verticals (flights, hotels, holidays, activities), shaping the product from initial concept to a full-scale, multi-service platform.**
- Engineered scalable backend search services (FastAPI, Redis) for 10k+ daily flight queries, slashing API response times by 40% and increasing query throughput by 45%.
- Led the server-side re-engineering of the booking workflow using Celery and MongoDB, improving the booking success rate from 70% to 92% by automating ticketing and payment verification.
- Optimized frontend performance by 35% by implementing Next.js Server-Side Rendering (SSR) and integrating Zustand and TanStack Query for efficient server-state synchronization.

OPEN SOURCE CONTRIBUTIONS

Kestra — Open Source Data Orchestration Platform   *Java, Vue.js, SCSS*

- Engineered the **Dropbox plugin** from scratch, implementing 9+ file management tasks (List, Download, Upload, Delete, Search) using the Dropbox Java SDK.
- Implemented robust data handling logic, including flexible path inputs (String or Kestra URI) and scalable retrieval options (FETCH_ONE, FETCH, STORE).
- Resolved a global UI bug by fixing CSS overflows in notification components and refactored the blueprint browser with a responsive, multi-column Flexbox grid.

PROJECTS

Clooney — Web App Cloning Agent   *Python (Playwright, Pytest), Gemini LLMs, Next.js, Tailwind CSS*

- Developed an **agentic system** using a **hybrid LLM architecture** (Gemini Pro/Flash) to analyze and replicate frontend UI; implemented a robust **Component Decoupling** strategy to prevent 504 API timeouts on complex sections.
- Successfully integrated **interactivity (UX) cloning** by analyzing 'before-and-after' user states and injecting necessary React state and event handlers, delivering a high-fidelity, functional code output.

Stash — Content Management Platform   *Spring Boot, Next.js, PostgreSQL, Docker*

- Architected a full-stack platform with a secure OAuth2 (Google) login bridged to a stateless JWT-based API; integrated AWS S3 for scalable, secure file storage.
- Containerized the Spring Boot backend using Docker and built a responsive drag-and-drop UI with Next.js and TypeScript for enhanced content organization.

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, TypeScript, SQL, C, C++
- **Frontend:** React.js, Next.js, Zustand, Redux, Tailwind CSS, HTML, CSS
- **Backend:** FastAPI, Spring Boot, REST APIs
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Tools & Practices:** Git, GitHub, Docker, Redis, Celery, Postman, Agile (Scrum)

ACHIEVEMENTS AND LEADERSHIP

- Secured a campus placement offer from **DeltaX** after clearing all technical and HR rounds.
- Web Technology Lead at GDGC AEC (2024–25) and Facilitator at GDSC AEC (2023–24).
- Led the organizing team for the SAMURAI bootcamp and SMASH hackathon, engaging over 200 participants.