

# Bikash Agarwala

Software Engineer — Full Stack Developer

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LinkedIn — GitHub — Portfolio

## EDUCATION

Asansol Engineering College

B.Tech in Information Technology — GPA: 7.8

West Bengal, India

2022 – 2026

## EXPERIENCE

Software Development Engineer

Remote

Komfy Trip LLP

Aug 2024 – Nov 2025

- Spearheaded end-to-end development for core business verticals (flights, hotels, holidays, activities), scaling the product from concept to a multi-service platform serving live traffic.
- Engineered scalable backend search services using **FastAPI** and **Redis**, handling 10k+ daily flight queries and reducing API response latency by **40%**.
- Re-architected the booking workflow using **Celery** and **MongoDB**, improving booking success rates from **70%** to **92%** by automating payment verification.
- Optimized frontend Core Web Vitals by implementing **Next.js SSR** and **TanStack Query**, resulting in a **35%** performance boost.

## OPEN SOURCE CONTRIBUTIONS

Kestra — Data Orchestration Platform

Java, Vue.js

- Created the official **Dropbox Plugin** (Java SDK), enabling 9+ critical file operations (Upload, Download, List) for enterprise data pipelines.
- Implemented polymorphic path handling (String vs. Internal URI) and optimized file retrieval modes (FETCH, STORE) to reduce memory overhead.
- Resolved critical UI bugs in the notification system and refactored the Blueprint Browser using a responsive Flexbox grid, improving usability for thousands of users.

## PROJECTS

Clooney — AI Web Cloning Agent

Python, Gemini API, Playwright, Next.js

- Developed an agentic system using **Gemini Pro** to replicate UI components; implemented a **Component Decoupling** strategy to parse complex DOM structures, preventing 504 timeouts.
- Engineered a heuristic state analyzer that detects user interactions and injects functional React hooks (`useState`) into the output, ensuring high-fidelity, interactive code generation.

Stash — Universal Content Manager

Spring Boot, Next.js, PostgreSQL, Docker

- Architected a secure backend with **Spring Security (OAuth2/JWT)** and integrated **AWS S3** for scalable, cloud-native object storage.
- Containerized the application using **Docker** for consistent deployment and designed a responsive drag-and-drop interface using **Next.js** and **TypeScript**.

## TECHNICAL SKILLS

- **Languages:** Java (Core/Advanced), Python, JavaScript, TypeScript, SQL
- **Backend:** Spring Boot, FastAPI, Node.js, REST APIs, Microservices
- **Frontend:** Next.js, React.js, Tailwind CSS, Zustand, Redux
- **Infrastructure:** Docker, Redis, Celery, Git, MongoDB, PostgreSQL, MySQL

## ACHIEVEMENTS

- **Hacktoberfest 2025:** Completed the global challenge by merging high-quality PRs to the **Kestra** repository (Top 5% contributor activity).
- **Community Lead:** Served as Web Tech Lead for GDGC AEC, organizing the SAMURAI bootcamp and mentoring 200+ students in full-stack development.
- **Facilitator:** Led technical workshops for GDSC AEC (2023–24), driving a 30% increase in club participation.