

## EXPERIENCE

### **Software Engineer 1 - Full Stack** | Optimizely | Hybrid, Dhaka | May 2024 – Sep 2025

- Owned the Custom URL feature end-to-end - backend, AWS Lambda, and infrastructure setup that serves over a **million requests/day** and wrote extensive documentation to support maintenance
- Lead testing for a key reporting feature by writing tests for 3 different services, achieving over **80% code coverage**.
- Collaborated with cross-product teams to roll out analytics tracking which generates more than **5,000 events/month** to track multi-product user behavior.
- Resolved 4 high-priority, SLA-bound production issues, saving the company over **\$40,000** through cross-team collaboration.
- Built features to streamline workflow management, track feature adoption, generate data reports all in all improving user retention and engagement using Redis, ElasticSearch, PostgreSQL

### **Software Engineer 2 - Frontend** | GoZayaan | Remote | Dec 2022 – March 2024

- Developed an in-house website builder, which helped in increasing Google search traffic by **200% from 33k/month to over 100k/month**. Wrote reusable components, including tables and an image library, to facilitate content marketing and automated structured data insertion based on content for SEO.
- Migrated our **500,000 line** codebase from Vue 2 to Nuxt 2, improving performance and maintainability by optimizing Docker configurations and integrating Vite.
- Mentored **one junior engineer** and **onboarded two teammates** to new features, enhancing team productivity and cohesion.
- Delivered key user-facing features such as travel wishlist, support popups, and hotel map search, enhancing user engagement.

### **Software Engineer - Full Stack** | Shotero | Hybrid, Dhaka | Feb 2022 - Aug 2022

- Gained hands-on experience with JavaScript, Koa.js, Nunjucks, Alpine.js, PostgreSQL, and Sqitch, focusing on server-rendered templates, interactive web apps, and database schema design.
- Built 1 free tool with a cloud save and share feature using JSONBin.
- Lessons: Communication = clarity = good work. Small wins are important. Solve problems with familiar tools.

### **Web Development Intern** | Design Studio | Onsite, Dhaka | Sep 2021 - Nov 2021

- Developed and deployed 4 web landing pages for social businesses, **bringing over \$2,000** in revenue with a two-person team.
- Supported deployment of **3 legacy PHP websites** and used GitHub Actions for CI/CD, streamlining the development process.

## PROJECTS

### Relearnify | TypeScript, React, Redis, BullMQ, T3 Stack

- A note-taking app leveraging the FSRS Spaced Repetition algorithm to **boost memory retention by 50%**, with an automated review system and daily email reminders to ensure users revisit their notes.
- Built a rich text editor using Tiptap, supporting markdown, video embedding, and flexible formatting.
- Built out asynchronous email flow sending approximately **8 emails/day** using Redis and BullMQ scheduled jobs.

### Article: Full Text Search using Django and Postgres | Django, PostgreSQL

- Wrote a tutorial on implementing efficient full-text search feature using Django and PostgreSQL, leveraging SearchVectorField, GIN indexes, and weighted search for enhanced query performance.

### BDJobs Scraper | Python

- Developed a script using asynchronous Python that scrapes **6,000 job listings** from BDJobs in 10 minutes, an 8x speed increase compared to traditional methods.
- Optimized file handling to store one page in memory at a time, preventing high memory usage.

### Multiple Currency Converter | Remix, PWA, Redis

- Architected a multi-tier caching system (Upstash Redis + localStorage + Service Worker) that reduced API consumption by 99%, handling unlimited users with only 60 monthly API calls
- Built an offline-first Progressive Web App using Remix, Workbox, and NetworkFirst caching strategies, enabling full functionality without internet connectivity after initial load

### Review It | ExpressJS, MongoDB, TypeScript

- Built **10+ features** that include posting, commenting, image uploads, authN/Z, maps, rate-limiting for a reviews website.

## EDUCATION

### **BRAC University, BSc in Computer Science and Engineering, CGPA: 3.91 / 4.0**

Thesis: Image Processing and Deep Learning/CNN Models using Python, Keras, Tensorflow