Karan Upamanyu

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Skills

Languages and Tools: TypeScript | Next.js | React | Tailwind | GraphQL | Gatsby | Python | SQL | MongoDB

Software Development: Web Performance Optimization | Accessibility | Git | CI/CD | GCP | Analytics

Experience

Lyearn, Product Engineer II – Website   *Aug 2024 – Present*

AI-INTEGRATED KNOWLEDGE MANAGEMENT

- Developed UI for a **corporate knowledge asset system** for our largest client, Sprinklr (client presentation)
- Added support for **multi-state management** (draft, published, in-review) and **role-based access control**
- Joined a high-bug **AI-chatbot** project midway and **rearchitected** its frontend for great **stability** and **scalability**

MAINTAINING AND OPTIMIZING A NEXT.JS CODEBASE

- Incrementally migrated a **Next.js** repository from the **Pages router** to the **App router**
- Upgraded **URQL** setup to work with **Next.js 15** server-side rendering, **React** to **v19**, and other key dependencies
- **Optimized GraphQL queries** on user-home via batching, reducing initial **load time** from **>3s** to **<600ms**

OTHER

- Implemented subscription flows and **billing** UI using **Stripe** with **access restrictions** across 4 pricing tiers
- Built **interactive charts** (eg: combining **sunburst** and **radial bar charts**) using **D3.js** for user profiles (demo)
- Built UI for features such as **announcements**, **content feedback**, **editable homepage dashboard widgets**

Springboard, Software Engineer II (Growth Team) – Website   *Aug 2022 - Jul 2024*

WEBSITE REBRAND AND PERFORMANCE OPTIMIZATION

- Developed a **React**-based **design system** using **Babel** for builds and **CircleCI** to publish it as an **NPM package**
- Built reusable and maintainable **React** components in a **Gatsby SSG** project that integrates with **Storyblok CMS**
- Set up **site analytics** systems using **GTM**, **GA4**, **Search Console**, **Segment**, and other tools
- Improved **mobile performance** by **66%** and achieved **2.5x faster FCP of 1.5s** (PageSpeed Insights)
- Optimizations include: **Partial Hydration (Gatsby)**, **Webpack**, **Partytown**, **CSS purging**, **façades**, **caching**, etc.

PAYMENT AND INTERESTED LEADS WORKFLOW IMPROVEMENTS

- Enhanced the transparency of Springboard's payment workflow, with **AngularJS**, **GraphQL**, and **RxJS**
- Reduced refund requests significantly, **saving $50k+ monthly** by improving user trust in the platform
- Developed comprehensive **Jasmine tests** and **Seleniumbase automations** to ensure robustness and reliability
- Enhanced **Django APIs** to store lead interactions and forward them to **Marketo** for targeted **email campaigns**
- Implemented new **Google SSO** login and Course Enrolment flows in **React** consuming these new APIs

OTHER

- **Won 2 of 2 AI hackathons** at Springboard, implementing a **GPT-powered chatbot** with curriculum context
- Completed a 3-month **Data Driven Strategic Thinking** course under a BizOps leader's mentorship (certificate)
- Drove a **22% increase in leads** from blogs to courses by **analyzing insights** on **BigQuery** and **VWO A/B tests**
- **Evaluated** and **integrated** tools like Metabob & Codium (CI/CD, BitBucket), **collaborating** with external teams

Education

B.M.S. Institute of Technology, B.E. in Information Science and Engineering   *Aug 2018 – July 2022*
- GPA: 8.78/10

Presidency College, Pre-University, Computer Science   *May 2016 - Apr 2018*
- PCM: 88%, College CS topper (94%)