

Karan Upamanyu

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Skills

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

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

Experience

Lyearn, Product Engineer III, Frontend Lead

Aug 2024 – Present

AI-INTEGRATED APPLICATIONS

- Led FE development of an **AI-powered LMS** with Notion-like block-schema, Lyearn's **most used product (10k users)**
- **Rearchitected** FE of a buggy **AI-chatbot** into a **stable, scalable** product that became a key offering at Lyearn – [blog](#)
- Authored utilities, like **state management** and **subscription retry mechanisms** ([blog](#)), for complex full-stack apps

OPTIMIZING AND MAINTAINING A NEXT.JS CODEBASE

- Implemented **normalized caching** with **URQL Graphcache** on the frontend, reducing network load by **50%** to **96%**
- **Optimized GraphQL queries** on user-home via batching, reducing initial **load time** from **>3s** to **<600ms** – [blog](#)
- Incrementally migrated a **Next.js** repo to the **app router** and **React 19**; reconfigured **URQL** for **SSR** with Next.js 15

LEADERSHIP AND FEATURE DEVELOPMENT

- Led 4 FE engineers, mentored juniors, ran 50+ interviews (2025), and drove adoption of better systems and practices
- 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** - [demo](#)) using **D3.js** for profile visualization
- Built UI for multiple features, such as **editable dashboard widgets**, **knowledge assets**, **announcements**, etc.

Springboard, Software Engineer II (Growth Team)

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**
- Set up **site analytics** systems using **GTM**, **GA4**, **Search Console**, **Segment**, and other tools
- Improved **mobile performance** by **66%** and achieved a **2.5x faster FCP of 1.5s** (PageSpeed Insights) – [blog](#)
- Optimizations include: **Partial Hydration** (Gatsby), **Webpack**, **Partytown**, **CSS purging**, **facades**, **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 – [blog](#)
- 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
- [Trained](#) 50+ students for placements; Cofounded a 300-member coding club; Developed college's placement database