

Samyak Piya

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PROFESSIONAL SUMMARY

Frontend Software Engineer with **3+ years** of experience building user-facing frontend web applications in **React (TypeScript)**, aiming to expand into a Full-Stack Software Engineer role.

EDUCATION

University of Kentucky, Bachelor of Science in Computer Science

Aug 2020 – May 2024

- GPA: 4.0/4.0 | Dean's List All Semesters | Minor in Mathematics

SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, Python, Java, Postgres, MongoDB

Technologies: React, Redux Toolkit, Next.js, Jest, Cypress, Zod, Apollo GraphQL, Node.js, Express.js, Tailwind CSS

Tools: AWS, Figma, Prisma, Webpack, ESLint, Prettier, Postman, Docker, Git, GitHub, GitLab

WORK EXPERIENCE

Frontend Software Engineer, Infineon

May 2023 – Present

- Accelerated website performance by 30%, boosted accessibility by 57%, and amplified SEO by 72% through a Next.js and React re-architecture, positively impacting the experience of over 10,000 daily users.
- Optimized data retrieval by 25% and enhanced user experience by 33% by implementing server-side caching, Next.js server actions, and advanced pagination, sorting, and filtering.
- Elevated data processing accuracy by 37% and virtually eliminated user-facing issues by integrating TypeScript and Zod for robust data validation and type safety.
- Technologies used: TypeScript, React, Next.js, Tailwind CSS, Zod, NextAuth, AWS, Docker, Postman

Software Engineer Intern, UK IT Services

May 2022 – Aug 2022

- Slashed manual entry errors by 27% by deploying a TensorFlow.js machine-learning model to automate ticket classification, accelerating the ticket resolution workflow.
- Reduced response times by 31% by implementing real-time ticket status notifications using WebSockets, empowering IT staff to resolve critical issues faster.
- Optimized the ticket intake process by designing a user-centric submission interface with guided forms and FAQ integration, reducing incomplete or incorrect tickets by 40%.
- Technologies used: React, Redux, WebSockets, TensorFlow.js, Tailwind CSS

Teaching Assistant, UK Department of Computer Science

Jan 2022 – May 2022

- Teaching assistant for CS315 – Data Structures and Algorithms.
- Hosted weekly office hours to help students understand data structures and core algorithmic concepts.
- Led weekly recitation sessions for over 15 students and helped grade assignments and exams.

Teaching Assistant, UK Department of Computer Science

Jan 2021 – May 2021

- Teaching assistant for CS216 – Web Programming (HTML, CSS, JavaScript, and React).
- Conducted 14 coding labs, graded assignments, and provided support on the discussion forum.

PROJECTS

BBNvolved

2020 – 2024

Improved a web app for UK students to find events and organizations, used by 20,000+ students over 4+ years:

- Devised and launched a tailored subscription feature, enabling students to follow organizations and receive instant event notifications, resulting in a 50% uptick in student engagement and a 35% increase in event attendance rates.
- Collaborated to create a highly intuitive and responsive user interface, increasing daily active users by 17% and dramatically improving the discoverability of events and organizations.
- Technologies used: Typescript, React, Redux, GraphQL