

Samyak Piya

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SUMMARY

Software Engineer with 1 year of experience building scalable web applications in React that serve 30,000+ users.

EDUCATION

University of Kentucky

B.Sc. in Computer Science with a Minor in Mathematics

Aug 2020 – May 2024

GPA: 3.80/4.00

WORK EXPERIENCE

Software Engineer, Infineon

May 2023 – Present

- Reduced maintenance costs of the internal People Picker tool by 71% (\$23,000 annually) by rebuilding it in Stencil.js Web Components, consolidating React, Vue, and Angular implementations into a single package.
- Successfully migrated 13 legacy web apps to Next.js, integrating SSO (OAuth), token rotation, session management, and RBAC using an open-source library, eliminating costly third-party service licensing fees.
- Engineered a highly customizable, performant data grid with features like column sorting, freezing, resizing, virtualization, GraphQL pagination, and caching, seamlessly handling datasets of over 1 million archive records.
- Implemented comprehensive unit, integration, and end-to-end tests using Jest, React Testing Library, and Cypress, achieving 95% test coverage and significantly reducing production bugs.
- Tech Stack: React, Next.js, Auth.js, Tailwind, Figma, GraphQL, Zod, Jest, Cypress, RTL, OpenShift, Postman

Software Engineer Intern, UK IT Services

May 2022 – Aug 2022

- Refined the IT dashboard using React and Tailwind CSS, enhancing the user interface for technicians and enabling faster navigation through service requests and incident reports.
- Designed and deployed a TensorFlow.js machine learning model to automatically classify incoming IT support tickets, reducing manual data entry and improving classification accuracy by 19%.
- Implemented a real-time ticket notification system using Socket.io, resulting in a 2x increase in the speed of ticket assignment and quicker resolution of critical IT incidents.
- Tech Stack: React, Tailwind CSS, Socket.io, TensorFlow.js, Tailwind CSS

Data Structures & Algorithms Teaching Assistant, UK CS Department

Jan 2022 – May 2022

- Led and facilitated weekly recitation sessions for a class of 28 students, reinforcing lecture material through problem-solving exercises and hands-on coding practice.
- Provided one-on-one and group tutoring during weekly office hours, guiding students through complex data structures and algorithmic concepts, improving their understanding and performance.
- Assisted in grading assignments and exams, ensuring fair evaluation and offering constructive feedback to help students improve their skills.

PROJECTS

UKY BBNvolved (<https://uky.campuslabs.com/engage/>)

- Enhanced accessibility across the platform by implementing ARIA attributes and ensuring WCAG compliance, making the platform more inclusive for all students.
- Optimized user flows for joining student organizations by creating reusable form components with react-hook-form and Zod, reducing sign-up abandonment rates.

MediCheck - UKY CatHacks X First Prize Winner (<https://github.com/samyakpiya/medicheck.gif>)

SKILLS

Languages: HTML, CSS, SASS, JavaScript, TypeScript, Python, Java, SQL, GraphQL

Frameworks/Libraries: React, Next.js, Auth.js, Web Components, Stencil.js, Jest, Playwright, Zod, Tailwind CSS

Tools & Tech: Figma, Postman, Docker, Prisma, Drizzle, CI/CD Pipelines, RESTful API, Socket.io, OpenShift, Sentry, Posthog, Vercel, ESLint, Prettier, OAuth, Redis, Caching, RegEx, CORS, Elasticsearch, Bash, Linux