Samyak Piya

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SUMMARY

Software Engineer with 2+ years of experience designing, developing, and optimizing full-stack applications.

EDUCATION

University of Kentucky   **Aug 2020 – May 2024**
B.Sc. in Computer Science with a Minor in Mathematics   **GPA:** 3.83/4.00

WORK EXPERIENCE

Software Engineer, Infineon   **May 2023 – Present**
- Built and maintained full-stack web apps, improved accessibility by adhering to WCAG standards, enhanced responsiveness across devices, and trained backend engineers in CSS, JS, and React for smooth handovers.
- Optimized a set of SQL queries in a reporting tool, reducing execution time from several seconds to milliseconds by rewriting inefficient joins and indexing key columns.
- 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.
- 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: SQL, Tailwind, TypeScript, React, Vue, Next.js, Zod, jQuery

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.
- Developed SQL queries analyzing 10,000+ support tickets to generate detailed incident reports, providing insights that improved decision-making and reduced incident resolution time by 15%.
- Implemented a real-time ticket notification system using Socket.io (i.e. Web Sockets), resulting in a 2x increase in the speed of ticket assignment and quicker resolution of critical IT incidents.
- Worked closely with end-users to refine and translate business needs into technical implementations.
- Tech Stack: React, Tailwind CSS, Socket.io, TensorFlow.js, SQL

PROJECTS

Course Cascade (https://course-cascade.vercel.app, https://github.com/samyakpiya/course-cascade)
- Architected and developed a full-stack Learning Management System using Next.js 14, TypeScript, and AWS serverless infrastructure, implementing a microservices architecture that handles 1000+ concurrent users.
- Engineered a cloud-native backend using AWS Lambda, API Gateway, and DynamoDB, with a containerized deployment pipeline using ECR, reducing operational costs by 60% compared to traditional server hosting.
- Designed a scalable content delivery system using AWS CloudFront CDN and S3, optimizing video streaming and file management for educational content across global regions.
- Built a responsive, mobile-first UI using Tailwind CSS and Shadcn UI components, achieving a 95+ Lighthouse performance score and optimal Core Web Vitals.
- Tech Stack: Next.js, TypeScript, Tailwind, Docker, Lambda, API Gateway, DynamoDB, S3, CloudFront, Clerk

SnippetVid (https://snippetvid.com) - SaaS platform for real-time personalized video creation and streaming

MediCheck - UKY CatHacks X First Prize Winner (*https://github.com/samyakpiya/medicheck.git*)

SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, Python, PostgreSQL
Frameworks/Libraries: React, Redux Toolkit, Next.js, Stencil.js, Jest, Playwright, Zod, Tailwind CSS, Express
Tools & Tech: AWS Lambda, S3, CloudFront, EC2, API Gateway, CI/CD Pipelines, RESTful API, Socket.io, Sentry, Node.js, Figma, Postman, Docker, Prisma, Vercel, ESLint, Prettier, Clerk, NextAuth, CORS, Elasticsearch, Redis