

SAHIL KOTIAN

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EDUCATION

Indiana University Bloomington

Aug 2022 – May 2024

Master of Science in Computer Science

Bloomington, IN

Relevant Coursework: Algorithm Design and Data Structures, Software Engineering, Applied Machine Learning, Cloud Computing

University of Mumbai

Aug 2017 – May 2021

Bachelor of Engineering in Computer Engineering

Mumbai, India

TECHNICAL SKILLS

Programming/Scripting Languages: Python, JavaScript (ES6), TypeScript, Java, GraphQL, HTML5, JSON, XML, CSS3

Web and Mobile Frameworks: React, Next.js, Node.js, Flutter, React Native

Databases: MySQL, PostgreSQL, MongoDB, Firebase

Tools and Technologies: Git, NPM, Yarn, Postman, Docker, Kubernetes, Netlify, Vercel, Figma, Adobe Creative Suite

EXPERIENCE

Heartland Community Network | Senior Consultant - Software Engineer (Remote, USA)

Jun 2024 – Present

- Led the end-to-end development and deployment of 4 client websites, implementing effective **UI/UX** standards with **TypeScript** and **Next.js** for the front-end, and **MongoDB** and **Prisma ORM** for the back-end and database.
- Orchestrated a healthcare system with **Twilio** SMS integration, facilitating patient registration and **OAuth**-based authentication, scheduling, and an admin portal, reducing appointment processing time by 70%.
- Directed cross-functional **agile** scrum teams, enhancing the **code review** process with 30+ stakeholders to ensure successful project execution.

Indiana University Kelley School of Business | Software Engineer (Bloomington, Indiana)

Jan 2023 – Apr 2024

- Prepared 20+ wireframes to guide responsive user interface design and conducted source code reviews to ensure effective state management and optimize web performance.
- Optimized **NoSQL MongoDB** queries and **API** endpoints using **Redis** caching (cache-aside strategy), reducing database load times by 25%.
- Integrated **CI/CD** pipelines, leveraging **Jest** for unit testing, & **Cypress** for E2E testing, cutting manual efforts by 40%.

Fourth Signal | Web Developer (Mumbai, India)

Jul 2021 – Aug 2022

- Developed and maintained in-house **fintech** applications on **AWS** cloud infrastructure (**S3**, **CloudFront CDN**) with **React.js** and **Node.js**, ensuring a consistent 99% runtime.
- Reported bugs in **QA Testing**, assisting cross-functional teams in bug resolution, ensuring compliance with quality norms.
- Engineered **Express.js REST APIs** for automated NAV data retrieval and storage of 300+ mutual fund schemes.
- Co-led **Flutter**-based mobile development with **Firebase** backend, integrating data from 55 banks and successfully deploying to **Google Play Store** and **Apple App Store**.
- Automated daily MCLR rate entry and **SAP** data mapping, cutting manual work by 80%.

Think of IT Foundation | Web Developer, Intern (Mumbai, India)

Aug 2020 – Jan 2021

- Executed backend integration with **Flask**, scripted **SQL** migration queries with rollback procedures, and gathered user feedback to refine functional requirements, leading to a 25% improvement in query response time.
- Managed project tasks with **Jira**, used **Git** for version control, & leveraged a **CI/CD** tool like **Jenkins** for continuous deployments.

PROJECTS

Phone Case Customization App | Next.js, TypeScript, Neon Postgres, Tailwind CSS, React Email

Jan 2024 – May 2024

- Created the full stack app with **Next.js** and **Neon Postgres**, using **Stripe** for payment processing and webhook handling.
- Leveraged **React Email** to automate 100% order confirmations, driving operational productivity up by 40%.

Online Banking System | Next.js, TypeScript, Appwrite, Sentry, Tailwind CSS, Plaid

Aug 2023 – Dec 2023

- Built real-time **fintech** payment processing system with multi-account integration leveraging **Plaid API**.
- Implemented **Appwrite**'s backend web services for authentication, data handling, and **server-side rendering**.
- Integrated **Sentry**'s session replay for enhanced web security monitoring, decreasing incident response time by 50%.