

Anoop PK

Full-Stack Software Engineer

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TECHNICAL SKILLS

Frontend: React.js, Next.js, Redux, JavaScript, TypeScript, TailwindCSS, Material-UI, HTML5/CSS3, Jest, Playwright
Backend: Node.js (NestJS, Express), GraphQL, REST APIs, WebSockets, PostgreSQL, MongoDB, Redis
DevOps & Cloud: AWS (Certified Cloud Practitioner)(EC2, S3, RDS, Lambda, ElasticCache), Docker, Kubernetes
Tools: Git, CI/CD (GitHub Actions, Jenkins), Kafka, Docker, AWS

EXPERIENCE

Software Engineer I

July 2023 – Present

Ellucian Higher Education Systems

Bangalore, India

- Elevated unit test coverage from 40% to 90% through code modularization and comprehensive testing scenarios.
- Mitigated latency by over 50% through the implementation of debouncing and caching frequent API calls in ReactJS.
- Solely owned the development of a flagship UI feature that efficiently compares student details from ERP systems and databases, enabling seamless data verification and enhancing user productivity
- Designed and implemented a permission management system using HOCs and custom hooks, securing access to 20+ pages and reducing unauthorized access.
- Created automated test cases using Playwright, improving test coverage by 40% and reducing manual testing time
- Developed 3+ backend systems using Microservice architecture with GraphQL and NestJS.
- Achieved a 50% reduction in latency by implementing Redis caching using AWS ElasticCache for infrequently changing items and creating a reusable NestJS package.
- Designed and implemented a modular JavaScript script using Node.js Worker Threads to parallelize the migration of on-premise user data to a SaaS platform, improving onboarding efficiency for customers

PROJECTS

Shortd - Scalable URL Shortener - *(React.js, Node.js, Redis, MongoDB, Kafka, Docker)* | Github

- Built a high-performance, scalable URL shortener capable of handling millions of requests per day, using microservices architecture.
- Designed a real-time analytics system using Kafka, tracking click events, geo-location, and device types.
- Optimized URL redirection speed by implementing Redis caching, reducing lookup times by 80%.
- Implemented User Authentication & Authorization using JWT access tokens, and email verification ensuring secure API access for registered users

KIF Products - *React, Express, MongoDB, MySQL, AWS*

- Collaborated with a team to develop a product and company listing platform for Kanjikode Industries Forum (KIF), supporting 50+ member companies in showcasing their products.
- Designed and implemented advanced search and filtering features, enabling users, such as homeowners and contractors, to directly purchase products from wholesalers, reducing construction costs by up to 30%.
- <https://www.kifproducts.com/>

Dyuksha'23 - *React, Firebase, FramerMotion, Flutter* | Github

- Designed and developed a responsive web application using ReactJS for Dyuksha'23, a national-level tech event organized by NSS College of Engineering, attracting 1,000+ participants.
- Implemented real-time query resolution with Firebase live chat, reducing response time for participants and improving overall event satisfaction.
- Boosted event registrations by 50% through an intuitive user experience and targeted event promotion strategies integrated into the platform.
- <https://d23web.vercel.app/>

CERTIFICATIONS

AWS Certified Cloud Practitioner - *March 2025*

EDUCATION

NSS College of Engineering

Palakkad, India

Bachelor of Technology in Computer Science (CGPA : 8.98/10)

August 2019 – July 2023

Relevant Coursework: Web Development, User Interface Design, Data Structures and Algorithms, Database Management Systems, and Computer Networks.