Yashraj Basan

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Experience

Senior Software Engineer Apr 2023 – Present
Materialplus *Remote*

- Sole technical owner of an enterprise **full-stack application** (**React, Tailwind CSS, TypeScript, Node.js, AWS Lambda, DynamoDB**), accountable for delivery, ticket estimation, and production issues in **Agile** sprints
- Architect and deployed a secure, production grade RAG system using AWS Bedrock and S3 serving 1000+ workers, implementing Bedrock Guardrails for sensitive info filtering responses at scale
- Built automated AI Agent Evaluation framework for accuracy and latency testing and integrated Laminar for end-to-end LLM observability and tracing.
- Reduced prod error detection from **4–8 hours to minutes** by building an alerting pipeline (SNS, Teams, SES) with **SQS DLQs** to prevent message loss
- Implemented JWT user authentication and onboarding using a **AWS Cognito** integrated with **API gateway, lambda**
- Reduced security vulnerabilities (**XSS, SQLi, CSRF**) by ∼**30%** (∼280 to under ∼200 findings)
- Reduced runtime errors and met a compliance change by migrating a MedTech codebase to **strict-mode TypeScript**
- Improved React rendering performance by **30%** on an e-commerce cart flow using useMemo, useCallback, and React.memo
- Maintained **70–80% test coverage** with **unit and integration tests** across **100+ React components** and Node.js services (Jest, Mocha)
- Accelerated regional expansion by building a multi-country layer with the **Factory design pattern**
- Reduced **Lambda layer size by 36%** (250MB to 160MB) by replacing npm packages with native Node.js features
- Reduced OpenSearch infrastructure cost by ∼**10%** by recommending and executing a 3-year reserved instance
- Improved team delivery by mentoring **3 junior engineers** through code reviews and technical guidance

Software Engineer Sep 2021 – Jan 2023
Recro *Remote*

- Improved core web vitals **LCP, CLS from ∼3.5s to under ∼2.2s** across key pages
- Reduced **page load time by ∼13%** by converting images to Web and compressing Brotli
- Improved SEO by choosing **Next.js server side rendering** over client side React after weighing the trade-offs
- Automated frontend deployments to S3 through CI/CD and added storage lifecycle policies.
- Improved code reuse with a shared **TypeScript design system** (**tailwind**) in a **React monorepo** (Turborepo, Webpack, Redux)

Senior Software Engineer Jun 2020 – Aug 2021
Callhippo *Remote*

- Built a **real-time calling and recording system** (React, Bootstrap, Socket.IO, Twilio) and was promoted to Senior within ∼1 year
- Cut **API latency by ∼60%** (∼450ms to ∼180ms) by optimizing **RESTful Node.js/Express APIs** and **MongoDB** queries
- Achieved **60fps** on 10,000-row datasets with windowing virtualization

JavaScript Consultant (Contract) Sep 2019 – May 2020
Qxf2 *Remote*

- Cut regression testing time by ∼**40%** by building a **TestCafe automation framework** for a banking application

Certification

AWS Certified AI Practitioner Credential Verification
Bedrock, SageMaker, RAG, vector db, responsible AI, AI security *Sep 2026 – Sep 2029*

Education

Parul University Vadodara, Gujarat
B.Tech in computer science and engineering *March 2016 – March 2020*

Technical Skills

Frontend: HTML/CSS, SASS, React, TypeScript, JavaScript, Redux, Angular, Vue
Backend: Node.js, MongoDB, SQL, OpenSearch/Elasticsearch
Cloud & DevOps: AWS, CI/CD (GitHub), Docker
Practices: Agile, AI assisted spec driven development, LLM, Responsible AI, Mentoring & Code Reviews, Ownership