

# Subhash Mahimaluri

Principal Software Engineer & Cloud Architect | React & Next.js | Node.js | React Native | AI/LLM (RAG, Fine-Tuning) | AWS & Azure | 15+ Yrs

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## Professional Summary

Principal Software Engineer & Cloud Architect with 15+ years of expertise in building high-scale, production-grade platforms for Fortune 500 enterprises. Expert in Frontend Architecture (React, Next.js), Backend Systems (Node.js), and AI/LLM Integration (RAG, Vector DBs). Proven track record of leading end-to-end product development, from architectural design to multi-platform deployment (iOS, Android, Web). Strategic leader known for optimizing system performance by 40%, reducing infrastructure costs by 25%, and delivering business-critical AI solutions that drive measurable user engagement and operational efficiency.

## Work Authorization

UAE 2-year residence visa | Immediate availability

## Professional Experience

### Founder & Principal Product Engineer

**Yexaa Technologies FZCO**

Dubai, UAE | Jul 2025 - Present

- Founded and built PlanBPass, a full-stack AI-driven advisory platform delivering structured decision support across web, iOS, and Android
- Architected and implemented the entire product stack end-to-end, covering frontend, mobile applications, backend services, AI workflows, and cloud infrastructure
- Designed and delivered a production-ready AI Advisor system using LLM orchestration, prompt engineering, and RAG-based knowledge grounding for accurate, context-aware responses
- Built scalable AI automation and agent workflows using n8n, enabling reliable task orchestration, controlled tool execution, and extensible AI pipelines
- Developed cross-platform mobile applications (iOS & Android) using React Native, ensuring feature parity and a consistent user experience with the web platform
- Implemented secure backend services using PostgreSQL (Supabase), leveraging authentication, row-level security, and real-time capabilities for scalable product foundations
- Designed and validated Phase-2 platform architecture through live demos, including helper onboarding, secure chat workflows, and an escrow-based payments model
- Delivered high-performance user interfaces using React, Next.js, and TypeScript, achieving 100/100 Lighthouse performance scores and sub-second page loads
- Containerized and deployed services using Docker with CI/CD pipelines, ensuring reliable builds, predictable releases, and secure environment management
- Prepared iOS and Android applications for store deployment, aligning technical readiness with go-to-market execution
- Actively engaging with early users, partners, and investors to refine product direction, validate market fit, and guide platform evolution

# Principal Engineer | Technical Lead

## Zensar Technologies

Bengaluru, India & Warwick, UK | Apr 2022 - Jul 2025

- Led delivery of enterprise-grade applications for Fortune 500 clients
- Designed CI/CD pipelines and improved deployment cycles from weekly to daily
- Achieved 90%+ test coverage and reduced defects through automated testing
- Mentored engineers across geographies, improving code quality and team velocity

## National Grid UK (1+ Year)

- Built enterprise UI with Next.js (SSR) + React 18 + TypeScript, improving maintainability with strict typings and reusable components
- Developed backend services with Node.js, Express, handling APIs, validation, and log parsing
- Designed CI/CD pipelines in AWS (CodePipeline, CodeBuild, Lambda, S3, CloudFront), reducing deployment cycles from weekly to daily
- Automated testing with Vitest & Playwright (TypeScript) → achieved 90%+ coverage and reduced defects
- Improved API response times by 25% through payload optimization and caching strategies
- Designed and prototyped AI-assisted internal tooling using Python, enabling automated data validation, log analysis, and intelligent insights
- Acted as technical owner for frontend architecture, defining standards, enforcing best practices, and reviewing design decisions
- Collaborated closely with UK-based product owners, architects, and backend teams, translating complex business requirements into scalable technical solutions

**Technologies:** Next.js, React 18, TypeScript, Node.js, Express, AWS CodePipeline, Lambda, S3, CloudFront, Vitest, Playwright, Python

## Shell Operations and Maintenance (AI Assistant) (1 Year)

- Maintained and enhanced the Shell FleetHub React + TypeScript application, ensuring stability, bug fixes, and release management through Azure DevOps pipelines
- Designed and implemented an enterprise-grade AI assistant for fleet operations, leveraging LLMs, RAG pipelines, vector databases (FAISS, Pinecone), Node.js microservices, and MongoDB
- Fine-tuned GPT models on Shell's internal data, enabling context-aware, accurate responses → reduced support ticket volume by 20%
- Integrated with Azure services (App Services, CosmosDB, Redis Cache), achieving 25% lower latency and 15% reduction in annual infrastructure spending
- Deployed real-time monitoring with Azure Monitor + Application Insights, improving proactive issue detection and reducing MTTR by 30%
- Recognized by Shell leadership for pioneering AI-assisted operations

**Technologies:** React, TypeScript, LLMs, RAG, FAISS, Pinecone, Node.js, MongoDB, Azure, CosmosDB, Redis, Azure Monitor

## Shell FleetHub (Modernization) (1.5 Years)

- Led modernization of a large-scale React 18 + TypeScript application by adopting Redux Toolkit + RTK Query for state/data management
- Boosted UI/App performance through code-splitting, memoization, and RTK Query caching → improved load times by ~40%
- Enhanced API integration with .NET (C#) REST services, optimizing payloads → achieved ~20% faster API responses
- Implemented secure JWT authentication (Janrain) and enforced stricter client-side type safety
- Strengthened QA with Jest, Cypress, and Playwright test suites, pushing coverage above 90%
- Optimized cloud infrastructure with Azure pipelines, App Services, Auto Scaling, Load Balancers, and Redis caching
- Adopted Micro-Frontend architecture using Module Federation, enabling independent deployments
- Leveraged GitHub Copilot for AI-assisted development, accelerating delivery by ~15%

**Technologies:** React 18, TypeScript, Redux Toolkit, RTK Query, .NET, Jest, Cypress, Playwright, Azure, Module Federation, GitHub Copilot

## Principal Consultant & Co Founder

### Yexaa Consultancy Services

Bengaluru, India | Jan 2021 - Mar 2022

- Delivered full-stack consulting projects for fintech, e-commerce, and SaaS clients using React + TypeScript, Node.js, GraphQL, AWS
- Architected scalable Node.js APIs with MongoDB & DynamoDB, serving 100K+ daily users
- Deployed serverless microservices (AWS Lambda) and containerized workloads on EC2 + Auto Scaling
- Optimized infrastructure with CloudFront CDN, S3 hosting, CloudWatch monitoring → improved performance by 40% while cutting costs
- Built component libraries & design systems, reducing dev effort by 25%
- Implemented CI/CD with AWS + GitHub Actions ensuring smooth, zero-downtime releases

## Senior Staff Software Engineer

### Altimetrik

Bengaluru, India | Aug 2018 - Aug 2020

- Owned full-stack delivery for Intuit QuickBooks Online with React + TypeScript, Node.js + GraphQL
- Developed 60+ responsive, SEO-optimized landing pages, driving SMB adoption worldwide
- Migrated React codebase to Hooks, boosting frontend performance by 30%
- Optimized GraphQL queries → reduced query load times by 20%
- Automated deployments via AWS Lambda, EC2, Auto Scaling, CloudFront, ensuring high availability for millions of users
- Strengthened QA with Jest + Cypress, maintaining 95%+ coverage
- Collaborated with US engineering teams under Agile → delivered scalable financial features to millions of SMBs

## Technical Lead

### Mindtree Ltd

Bengaluru, India | Jun 2014 - Jul 2018

- Led delivery of responsive web applications across multiple Time Inc brands using React, Redux, ES6, Webpack
- Built a scalable design system & component library adopted across global editorial teams → reduced new site build time by 25%
- Migrated legacy frontends (jQuery/templates) to React + modular CSS/Sass, improving maintainability
- Implemented code-splitting & lazy loading (Webpack) → improved Lighthouse/SEO scores by 40%
- Enhanced editorial workflows by integrating REST APIs + CMS systems
- Drove accessibility compliance (WCAG 2.0 AA) and SEO improvements (structured data, metadata)

## Technical Expertise

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### Frontend Technologies

React.js (8+ years), Next.js, TypeScript (6+ Years), Redux/Context API, HTML5, CSS3, Tailwind CSS, Styled Components, Webpack, Vite, Module Federation, React Native (iOS & Android), Expo, Design Systems, Monorepos (Nx/Turbo)

### Backend & APIs

Node.js (5+ years), Express.js, Python (3+ Years), GraphQL, REST APIs, Microservices, MongoDB, PostgreSQL, Redis, Supabase, Background Jobs, Webhooks

### Cloud & DevOps

AWS (3+ Years), Azure (3+ Years), Azure DevOps, Docker, Kubernetes, CI/CD, GitHub Actions, Jenkins

### Testing & Quality

Jest, Vitest, React Testing Library, Cypress, Playwright, TDD/BDD methodologies, 95%+ code coverage achievements

### AI & Automation

OpenAI, LangChain, LLMs, RAG, AI Agents & Tool-Calling, n8n, Workflow Automation, Prompt Engineering, Embedding pipelines

### Architecture & Design

Micro-Frontends, Distributed Systems, Cloud-Native (Azure/AWS), API/BFF Patterns, Event-Driven Systems, AI-Augmented Solutions

## Education

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**MBA** - Technology Management

**Bachelor's** - Computer Science

## Certifications

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- AWS Certified Developer
- NodeJS Developer Certification
- React JS Advanced

## Languages

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**English:** Fluent | **Arabic:** Basic (Learning)

*References and detailed portfolio available upon request*