

Franklin Joseph

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SUMMARY

Senior Software Engineer - Full Stack with 9 years of experience developing modern, high-performance web applications. Proficient in React, Node.js, GraphQL, and TypeScript, I've led the development of intuitive UIs, real-time dashboards, and robust backend systems. Skilled in cloud platforms like AWS and GCP, I deliver clean, maintainable code and scalable architecture.

Deliver High-Quality Code: I focus on delivering high-quality code by writing clean, maintainable, and well-tested solutions. I follow best practices that ensure performance, accessibility, and scalability.

Apply Strong Fundamentals: I have a SOLID understanding of software design principles, system architecture, and data structures, which I consistently apply to build reliable and well-structured frontend and backend systems.

Leverage AI Tools Effectively: I actively leverage AI-assisted tools for tasks like code generation, testing, and refactoring. These tools help me boost productivity while maintaining consistency and code quality.

Contribute to System Stability: I contribute to system stability by designing robust APIs, implementing effective caching and security strategies, and continuously monitoring and optimizing application performance to ensure reliability and uptime.

Engage in Collaborative Development: I value collaborative development and work closely with cross-functional teams in agile environments. I regularly participate in planning, code reviews, and mentoring, and I strive to contribute to a culture of learning and shared ownership.

TECHNICAL SKILLS

Languages: TypeScript (full stack), JavaScript, HTML5, CSS3

Frontend: React, React Native, Next.js, Tailwind CSS, Material-UI, D3.js

Backend: Node.js, Express.js, NestJS

APIs & Databases: GraphQL (Apollo), REST, PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

State Management: Redux, Zustand

Cloud & DevOps: AWS (Lambda, S3, Amplify, CloudFront), GCP, Docker, Terraform

Messaging & Streaming: Apache Kafka, RabbitMQ

CMS & E-commerce: Shopify, WordPress, Drupal

Tooling & Testing: GitHub Actions, Webpack, Babel, Jest, Cypress

EXPERIENCE

Senior Software Engineer

Aesop

February 2022 - March 2025, Singapore

- Engineered scalable architecture using Atomic Design in React and TypeScript, reducing feature development time by 30%.
- Architected a micro-frontend infrastructure with Nx monorepo, Node.js, and GraphQL, cutting deployment cycles by 35%.
- Led internationalization (i18n) for Aesop.com, enabling support for 4 languages—including Simplified Chinese, Traditional Chinese (Taiwan), and Traditional Chinese (Hong Kong), increasing non-English engagement by 20%.
- Developed over 15 user-facing features and optimized performance using Next.js and ISR, improving load speeds and increasing customer interaction by 15%.
- Refactored frontend and backend assets, reducing bundle size and improving maintainability through AWS-focused dependency upgrades.
- Built resilient backend orchestration using AWS Lambda and DynamoDB, resolving Contentful rate limits by caching CMS data.
- Implemented RBAC and audit logging with JWT and PostgreSQL and set up a CI/CD pipeline with GitLab CI and Docker, cutting time-to-market by 50%.

Senior Software Engineer

Industrial Electronics Pte Ltd

February 2020 - January 2022, Singapore

- Optimized development cycles in React by implementing a modular component architecture, cutting down production time by 40%.
- Utilized JavaScript and React to standardize state management with custom hooks and optimized data structures, improving performance by 30% and reducing boilerplate by 20%.
- Adopted and integrated TypeScript type checks and validation procedures to ensure code reliability, resulting in decreased runtime errors by 20%.

- Designed and implemented REST APIs in Node.js for IoT dashboards and device provisioning systems, increasing observability and control.
- Integrated PostgreSQL with Sequelize ORM, optimizing indexing strategies and reducing response times for high-volume sensor data by 25%.
- Standardized linting and mentored junior developers, fostering improved code quality and ensuring strong adherence to development and operational procedures.
- Engineered a microservices-based architecture using Docker and Kubernetes for scalable deployment, achieving a 30% decrease in system downtime.

Senior Software Engineer

Insurance Market Pte Ltd

August 2016 - January 2020, Singapore

- Managed a 4-developer team deploying modern web interfaces with React and TypeScript, achieving a 50% speed improvement on e-commerce platform.
- Executed UI implementations using Figma, Sketch, and Framer, enhancing user experience while maintaining brand consistency by 70%.
- Developed comprehensive API integration layers using RESTful services to enhance data consistency and reduce cross-service data retrieval times by 25%.
- Designed and maintained backend logic for insurance quote and comparison engines using Node.js and MongoDB, increasing quote delivery accuracy.
- Engineered decentralized application platforms with Ethereum smart contracts for insurance workflows, enhancing transaction security by 30%.
- Leveraged Stripe, OCBC, and eNETS APIs to manage secure backend payment flows, ensuring compliance and stability during peak transactions.

Web Developer

Water Weaver Solutions

June 2014 - August 2016, Chennai, India

- Designed and delivered 10+ corporate websites, e-commerce stores, and CMS applications, partnering with design and marketing teams.
- Enhanced site UX across multiple platforms, boosting customer retention by 25%.
- Automated CSV batch processing with custom Node.js scripts and validation layers, eliminating manual errors and accelerating data uploads.
- Built RESTful APIs for Shopify and WordPress integrations, powering real-time dashboards and multichannel inventory management.
- Deployed and maintained client websites across shared hosting and cloud platforms, ensuring 99% uptime and streamlined support operations.

EDUCATION

B. Tech - Information Technology, Karunya University

2009 - 2013, Coimbatore, India

KEY ACHIEVEMENTS

- Converted a legacy React codebase into modular TypeScript components, reducing runtime errors by 40% and cutting onboarding time for new developers by 25%.
- Optimized database indexing and query logic, reducing average response time by 40% and improving throughput during peak traffic by 3x.
- Led the integration of GraphQL APIs and implemented a caching layer using AWS Lambda and DynamoDB, decreasing third-party API calls by 60% and boosting page load speed by 30%.
- Established a CI/CD pipeline with GitHub Actions and Terraform, enabling zero-downtime deployments and reducing release time by 50%.
- Defined API versioning and error-handling standards across microservices, reducing backend bugs reported by clients by 35% and improving developer handoff efficiency.
- Implemented centralized logging and real-time error monitoring using AWS CloudWatch and Sentry, reducing production debugging time by 40% and increasing system reliability.