

KEVIN MACWAN

Senior Software Engineer | Full-Stack (React + Node.js + AWS)

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Legally authorized to work in Canada

PROFESSIONAL SUMMARY

Senior Software Engineer with **8 years** of experience designing and delivering scalable, secure full-stack applications using React, Redux, TypeScript, Node.js, Express, PostgreSQL, and AWS. Built microservices, REST APIs, and data-dense React interfaces for a Mastercard financial-crime monitoring and compliance platform. Strong in PostgreSQL performance, Kafka event streaming, Redis caching, and embedding security into the SDLC. Owns systems end to end architecture, production reliability, and stakeholder collaboration in regulated, high-availability environments.

TECHNICAL SKILLS

Frontend: React.js, Redux Toolkit, Context API, TypeScript, JavaScript (ES6+), HTML5, CSS3, Ant Design, Material UI, Micro Frontends (single-spa), Frontend Performance Optimization, Code Splitting & Lazy Loading, Accessibility (WCAG 2.1/2.2).

Backend: Node.js, Express.js, REST APIs, Microservices, Knex.js, JWT, OAuth, Event-Driven Architecture (Kafka)

Databases & Caching: PostgreSQL, MySQL, Redis

Cloud & DevOps: AWS, EC2, ECS, Lambda, S3, RDS, SQS, SNS, CloudWatch, OpenSearch, CI/CD, Git

Security & Quality: SonarQube, Checkmarx, Black Duck (SAST/SCA), unit & integration testing Jest

Practices: System design, API design, performance optimization, Agile/Scrum, code review, production support

PROFESSIONAL EXPERIENCE

Senior Software Engineer — EXL Service (Client: Mastercard)

April 2023 – March 2026

Financial Crime Monitoring / Compliance Case-Management Platform

- Architected and delivered scalable microservices in Node.js, Express, and Knex.js on AWS for a Mastercard financial-crime monitoring and compliance platform.
- Developed Kafka-driven risk workflow automation to process transaction risk events, automatically creating and assigning investigation cases based on business rules, reducing turnaround time by **50%**.
- Improved application scalability and performance by implementing Redis caching and optimizing data access patterns, reducing API response time by **40%** and lowering database load.
- Optimized PostgreSQL performance through advanced indexing, query tuning, and execution plan analysis, improving query efficiency and supporting increased transaction volumes.
- Built a responsive, data-dense React and TypeScript compliance case-management UI using Redux Toolkit for predictable state management across complex investigative workflows, delivering consistent and scalable user experience.
- Built reusable React component libraries and standardized UI patterns, incorporating semantic HTML and accessibility best practices to improve consistency, maintainability, and user experience across modules

- Embedded security into the SDLC using SonarQube, Checkmarx, and Black Duck (SAST/SCA) for a regulated financial platform.
- Owned production support, leading incident triage, root cause analysis, and preventive fixes and led code reviews while collaborating with compliance and product stakeholders in Agile delivery.

Full-Stack Developer — TecMantras Solutions

May 2022- April 2023

Tiger Pug — Importer / Product / Shipment Management Portal

- Built a full-stack vessel shipment management platform to streamline import/export operations, enabling centralized tracking of shipments, products, and importers and improving operational efficiency across logistics workflows.
- Developed scalable backend services and REST APIs using Node.js, Express, and MySQL, supporting shipment lifecycle management and improving system processing efficiency for growing transaction volumes.
- Integrated Amazon MWS APIs to automate product, order, and shipment synchronization, while maintaining real-time dashboards for improved operational visibility and faster decision-making.
- Enhanced frontend experience using React and Redux, optimizing high-frequency review workflows with code splitting, memoization, and state management improvements, reducing UI load time by **40%** and improving investigator productivity.
- Owned features end to end and resolved third-party integration issues to improve data accuracy and reliability.

Full-Stack Developer — Nstack Softech LLP (Client: Education Horizons)

May 2019 - May 2022

Zunia — Student Information / Education Platform

- Developed a full-stack education management platform to centralize academic and administrative operations, enabling efficient handling of student records, financial workflows, communication, and reporting within a unified system.
- Structured large React frontend codebases by feature-based architecture to improve maintainability and scalability, reducing bundle size and load time through lazy loading and dependency optimization.
- Architected the migration of monolithic workflows into Node.js microservices backed by PostgreSQL and Redis caching, deployed on AWS, improving scalability and maintainability while enhancing system reliability by reducing system failure incidents by **30%** and improving overall system performance.
- Diagnosed and resolved production issues through systematic root-cause analysis, improving platform stability.

EDUCATION

Master of Computer Application

May 2012 - July 2016

Gujarat Technological University

Bachelor of Computer Application

Jun 2009 - May 2012

Sardar Patel University

Certifications: Certified SAFe® 5 Practitioner – Scaled Agile, Inc.