Sheik Abdulla S

Senior Software Engineer

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Career Objective

Results-oriented Senior Software Engineer with over 4 years of experience in full-stack development, specializing in React.js, Node.js, Sequelize, Prisma ORM, and MySQL. Proven expertise in single-handedly developing end-to-end applications from scratch to deployment, leading development teams, optimizing backend performance by 20%, and delivering high-impact solutions with 100% client satisfaction. Skilled in implementing disaster recovery (DR) strategies to ensure application resilience, direct client interactions, and managing complete development lifecycles.

Professional Experience

Senior Software Engineer

Bizz Solutions Pvt Ltd., Trichy   Feb 2024 – Present

- Single-handedly developed and deployed end-to-end full-stack applications from scratch, managing all phases including architecture design, coding, testing, and deployment using React.js, Node.js, and Express.js, ensuring robust and scalable solutions.

- Architected disaster recovery (DR) processes for all applications, implementing fault-tolerant systems with automated failover, data replication across AWS regions, and backup strategies, achieving 99.99% application uptime and rapid recovery during outages.

- Led a team of React.js and Node.js developers, overseeing end-to-end development, ensuring alignment with client requirements, and delivering projects within strict timelines.

- Directly interacted with clients to gather and refine technical requirements, translating them into actionable development tasks, achieving 95% requirement accuracy and high client satisfaction.

- Optimized server-side logic, reducing backend workload by 20% through efficient API design, Redis caching, and load balancing with NGINX.

- Developed reusable React components and RESTful APIs using Sequelize and Prisma ORM, enabling seamless data integration and improved code maintainability.

- Implemented CI/CD pipelines using Jenkins and Git, automating testing and deployment processes, which improved release cycles by 15% and reduced deployment errors.

Software Engineer

ABR Systems Pvt Ltd., Trichy   Dec 2021 – Jan 2024

- Independently engineered multiple client-facing applications from scratch to deployment, handling all aspects of the development lifecycle, including architecture, implementation, and production rollout.

- Spearheaded a React and Node.js team, managing end-to-end development of applications, from requirement gathering to production deployment.

- Engaged directly with clients to collect and analyze requirements, ensuring customized solutions met business needs with 95% on-time delivery.

- Integrated AI-driven features and payment gateways into applications, ensuring scalability and performance through robust backend architectures using Node.js and MongoDB.

- Collaborated with cross-functional teams to deliver tailored solutions, maintaining clear communication throughout the project lifecycle.

Technical Skills

- **Frontend**: React.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Material-UI, Redux

- **Backend**: Node.js, Express.js, NestJS, REST APIs, GraphQL, RabbitMQ

- **Databases**: MySQL, MongoDB, PostgreSQL

- **ORMs**: Sequelize, Prisma ORM, TypeORM

- **Tools & Platforms**: Git, Docker, Jenkins, Postman, AWS (EC2, S3, RDS, Route 53), Firebase, RPA (Robotic Process Automation)

- **Integrations**: Razorpay, Twilio/WhatsApp API, Nodemailer, OpenAI GPT, HS Code API, SAP API, AI/ML Models (TensorFlow, Scikit-learn), Generative AI

- **Methodologies**: Agile, Scrum, Test-Driven Development (TDD), CI/CD

- **Other**: JWT Authentication, Bcrypt, AES Encryption, Cron Jobs, Microservices, Message Queuing, Disaster Recovery (DR), High Availability (HA), Fault Tolerance

Projects

TDS Manager 360
Technologies: React.js, Node.js, Express.js, RabbitMQ, Prisma ORM, MySQL, SAP API Integration, AI/ML Models (TensorFlow, Scikit-learn), Generative AI (OpenAI GPT), RPA (UiPath/Robotic Process Automation), Docker, AWS S3, Chart.js
Description: Single-handedly developed 70% of the frontend and backend for this enterprise-grade Singapore document tracking application tailored for clients in the banking sector. The system integrates Singapore government regulations, SAP data, and Singapore bank rules to automate document declarations, tracking, and submissions, achieving 90% end-to-end process automation over a 1.6-year development period.
Key Achievements:

- Architected a scalable full-stack solution with React.js for dynamic user interfaces and Node.js/Express.js for backend logic, utilizing RabbitMQ for asynchronous message queuing and event-driven processing to handle high-volume document workflows.

- Integrated AI/ML models and Generative AI (via OpenAI GPT API) for automatic document classification, data parsing, and 90% auto-fill of declaration forms, reducing manual input errors by 40%.

- Implemented RPA bots for automated CMD (Customs Management Dashboard) submissions, enabling single-click permit declarations and PDF generation for documents like invoices, packing lists, Certificates of Origin, Certificates of Analysis, and Bills of Lading.

- Developed real-time monitoring dashboards using Chart.js to visually track user-submitted documents, enforce multi-level validations based on government and bank rules, and provide status updates in an enterprise application.

- Ensured seamless SAP data synchronization and secure integrations with Singapore government APIs, deploying the microservices-based architecture on AWS with Docker for containerization, achieving 99% uptime and compliance with regulatory standards.

AI-Driven Singapore Customs Job Approval System
Technologies: React.js, Node.js, Prisma ORM, MySQL, OpenAI GPT-3.5, HS Code API, SaaS Architecture
Description: Single-handedly engineered an AI-powered customs approval system for Singapore, automating job validation, document processing, and HS code mapping from scratch to deployment.
Key Achievements:

- Integrated OpenAI GPT-3.5 for intelligent job validation and error correction, reducing manual effort by 40%.

- Built a multi-tenant SaaS architecture with Prisma ORM for scalable MySQL transactions.

- Automated HS Code mapping using external APIs, improving accuracy by 30%.

- Implemented a full audit trail for document uploads and validations, ensuring regulatory compliance.

AI Job Tracker for Logistics
Technologies: React.js, Node.js, MySQL, Sequelize, Chart.js, Nodemailer, Docker
Description: Independently built a job tracking solution for Singapore's import/export logistics, aligned with government compliance requirements, from scratch to deployment.
Key Achievements:

- Developed Sequelize-based data models for efficient MySQL operations and real-time job tracking.

- Created analytics dashboards with Chart.js for daily, monthly, and yearly job summaries.

- Integrated Nodemailer for automated email alerts, improving stakeholder communication.

- Containerized application using Docker, ensuring consistent deployment across environments.

AI E-Permit Declaration System
Technologies: React.js, Node.js, MongoDB, Multer, Razorpay API, AI Document Classification, MUI
Description: Single-handedly developed an AI-powered platform for permit declarations in Singapore, streamlining document uploads, declarer identification, and payment processing from scratch to deployment.
Key Achievements:

- Integrated AI document classification models to automate declarer identification with 95% accuracy.

- Utilized Multer for secure file uploads and Razorpay API for seamless payment workflows.

- Designed a dynamic React.js frontend with Material-UI, enhancing user experience.

- Implemented MongoDB for flexible document storage, reducing processing time by 15%.

Website Health Monitoring System
Technologies: React.js, Node.js, Express.js, Twilio/WhatsApp API, Nodemailer, Cron Jobs, Redis
Description: Single-handedly developed a real-time website monitoring tool to track uptime and performance, sending instant alerts via WhatsApp and email during downtime.
Key Achievements:

- Built a scalable backend with Node.js and Express.js, utilizing Redis for caching and cron jobs for scheduled health checks.

- Designed an interactive React.js dashboard with real-time status visualizations using Chart.js.

- Integrated Twilio and Nodemailer for multi-channel notifications, achieving 99.9% alert delivery reliability.

- Implemented retry logic and form validations, reducing false positives by 30%.

AI/ML Secure Password Manager
Technologies: React.js, Node.js, Prisma ORM, MySQL, JWT, Bcrypt.js, Material-UI, AWS S3
Description: Independently created a secure, corporate-grade password management system with role-based access control and AI-driven key management, enabling single-click access key rotation across all applications to mitigate downtime, performance slowdowns, and disaster recovery (DR) scenarios, from scratch to deployment.
Key Achievements:

- Leveraged Prisma ORM for type-safe MySQL operations, improving query performance by 25%.

- Implemented AES-256 encryption and Bcrypt hashing for secure credential storage, integrated with AI-driven algorithms to automate key rotation across multiple applications with a single click.

- Built a responsive admin panel with React.js and Material-UI, enabling secure user management and real-time key rotation monitoring.

- Deployed on AWS with S3 for secure file storage, ensuring compliance with enterprise security standards and reducing downtime risks by 35% through automated key updates.

Roles and Responsibilities

- **End-to-End Development**: Single-handedly developed and deployed full-stack applications from scratch, managing architecture, coding, testing, and production rollout.

- **Team Leadership**: Led React.js and Node.js development teams, overseeing end-to-end project delivery and ensuring alignment with client expectations.

- **Client Interaction**: Directly collaborated with clients to gather, analyze, and refine requirements, ensuring solutions met business objectives.

- **API Development**: Designed and maintained RESTful and GraphQL APIs, ensuring seamless frontend-backend integration.

- **System Optimization**: Optimized backend systems for performance, scalability, and security using caching, load balancing, and microservices.

- **Disaster Recovery**: Architected DR strategies with automated failover, data replication, and backup systems to ensure high availability and rapid recovery.

- **Deployment Management**: Managed CI/CD pipelines, Docker containers, and cloud deployments (AWS, Firebase) for trial, staging, and production environments.

- **Problem Solving**: Utilized strong analytical skills to troubleshoot issues, implement fixes, and enhance system efficiency.

Education

M.Sc. Computer Science
Jamal Mohamed College, Bharathidasan University   2019 – 2021

BCA – Bachelor of Computer Applications
Jamal Mohamed College, Bharathidasan University   2016 – 2019

PGDCA – Post Graduate Diploma in Computer Applications
Registered under Delhi Govt. Society Act 21, 1880

Personal Information

- **Date of Birth**: 17 July 1999

- **Marital Status**: Married

- **Blood Group**: B+

- **Nationality**: Indian

Declaration

I hereby declare that all the information provided is accurate and true to the best of my knowledge.
Sheik Abdulla S