MUHAMMAD SHAHIR YAR

Senior Software Engineer | MERN | Node.Js | JavaScript & TypeScript

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Professional Summary

Senior Software Engineer with 5 years building scalable SaaS platforms using TypeScript, Node.js, NestJS, React, Next.js, and AWS serverless architecture. Delivered AI-powered email systems processing 100K+ daily messages with 95%+ deliverability, timezone-agnostic schedulers serving 15+ countries, and marketplace integrations (Slack, n8n) for 50+ enterprise clients. Experienced in OpenAI/LLM integration for business automation. AWS Certified Cloud Practitioner with expertise in microservices, system design, and cross-functional collaboration in fast-paced environments.

Skills

Languages: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3
Frontend: React.js, Next.js, Redux, Tailwind CSS
Backend: Node.js, NestJS, Express.js, GraphQL, REST APIs, API Design, Microservices, OAuth 2.0
Cloud & DevOps: AWS (Lambda, DynamoDB, S3, CloudFormation, CloudWatch, Amplify, AppSync, EC2), Docker, CI/CD, Serverless Architecture
Databases: MongoDB, PostgreSQL, DynamoDB, Firebase/Firestore, Redis
Integrations: Slack API, Microsoft Teams Bot, SendGrid, HR Systems (BambooHR, Personio), n8n Workflow Automation, OpenAI/LLM APIs, Kroger, Suggestic, Event Brite
AI/ML: OpenAI API, LLM Integration, Prompt Engineering, ICP Analysis
Tools: Git, GitHub, VS Code, Swagger, Postman
Testing: Jest, Unit Testing, Integration Testing
Methodologies: Agile, Scrum, Code Review, System Design
Soft Skills: Cross-functional Collaboration, Technical Communication, Problem-solving, Mentoring

Work History

Full Stack Developer | Amrood Labs 10/2024 - Current
Nureply: Https://app.nureply.com/ – Lahore, Pakistan
Led fullstack development of AI-powered cold email platform | Next.js, NestJS, Docker, MongoDB, Redis, Microservices, OpenAI APIs, n8n Integration, LLM Prompt Engineering

- Led technical initiatives within 4-person engineering team, driving architecture decisions and establishing development standards
- Built and published custom Nureply integration app to n8n marketplace, exposing platform APIs for workflow automation and enabling no-code integration for enterprise customers
- Architected and deployed containerized microservices using Docker, reducing deployment time by 40% and ensuring environment consistency
- Integrated OpenAI APIs for AI-powered email generation and ICP (Ideal Customer Profile) analysis, enabling personalized cold email campaigns that improved response rates by 25%
- Implemented Redis caching layer, improving API response times by 60% for high-traffic email campaign endpoints
- Integrated EmailEngine and third-party email services, enabling delivery of 100K+ personalized emails daily with 95%+ deliverability rate
- Optimized MongoDB aggregation pipelines, reducing average query time from 800ms to 200ms
- Established code review standards and CI/CD practices, reducing production bugs by 35%
- Nureply: Https://app.nureply.com/

Full Stack Developer | Amrood Labs   02/2024 - 10/2024
Mail Router – Lahore, Pakistan
Enterprise Mail API Service | Node.js, TypeScript, AWS Lambda, CloudFormation, CloudWatch
- Built Mail API service handling 50K+ daily email requests with 99.9% uptime
- Designed serverless architecture using AWS Lambda, reducing infrastructure costs by 40% compared to traditional EC2 deployment
- Implemented domain/IP restriction system and email protocol compliance (SPF, DKIM, DMARC), achieving less than 0.1% spam rate
- Created Infrastructure-as-Code templates with CloudFormation, enabling one-click environment provisioning
- Achieved 85% unit test coverage, reducing regression bugs by 50%
- Collaborated with frontend team to co-design RESTful API contracts, ensuring smooth integration documented via Swagger

Software Developer | Aurora Solutions   08/2022 - 02/2024
Kinfolk: Https://www.kinfolkhq.com/ – Islamabad, PK
Core backend engineer for enterprise HR onboarding platform | Node.js, NestJS, TypeScript, AWS Lambda, DynamoDB, GraphQL
- Engineered timezone-agnostic notification scheduling system serving users across 15+ countries, processing 10K+ automated notifications daily with zero timezone-related failures
- Designed and published production Slack app to Slack Marketplace, coordinating with security teams to meet marketplace requirements, enabling real-time onboarding notifications for 50+ enterprise clients
- Built Microsoft Teams notification bot, expanding platform reach to Microsoft 365 ecosystems
- Developed recommendation engine for personalized onboarding journeys, improving new hire completion rates by 25%
- Integrated 5+ HR systems (BambooHR, Personio, SquarePayroll) via REST/OAuth APIs, automating employee data synchronization
- Architected DynamoDB schema supporting multi-tenant data isolation, documenting design decisions for team knowledge sharing
- Implemented GraphQL API layer with NestJS, reducing frontend data over-fetching by 40%

Associate Software Developer | Aurora Solutions   02/2022 - 07/2022
Aurora Portal – Islamabad, PK
Internal HR Management Platform | Node.js, NestJS, Firebase, Firestore, TypeScript
- Developed attendance tracking system processing 200+ daily check-ins with real-time reporting for HR and management
- Built holiday management module with automated approval workflows, reducing HR processing time by 60% through iterative feedback cycles
- Designed Firestore schema and implemented complex queries for work-log and feedback systems
- Created RESTful APIs documented with Swagger, enabling smooth frontend team integration
- Implemented comprehensive error handling and logging, reducing production incidents by 30%

Junior Software Developer | Aurora Solutions   10/2021 - 01/2022
Bitewell: Https://www.bitewell.com/ – Islamabad, PK
Diet & Meal Planning Mobile App | Flutter, REST APIs, Firebase
- Built responsive mobile UI components and integrated REST APIs for meal recommendations
- Integrated third-party services (Kroger grocery API, Suggestic nutrition API, Firebase Auth)
- Collaborated with senior engineers on complex features, contributing to 20% faster sprint velocity
- Identified and resolved 50+ bugs through systematic testing and debugging

Education

Bachelor of Science: Computer Science   02/2021
FAST - NUCES - Islamabad, PK

Certifications

12/01/22, AWS Certified Cloud Practitioner, https://www.credly.com/badges/ec879e72-da1c-40b8-a65bdc2edf405335/linked_in_profile

Languages

Urdu	C2
Proficient	

English	C1
Advanced	