BILAL AHMED SIDDIQUE

Full Stack Developer | Scalable Backend | Secure Authentication | Performance Optimization

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PROFESSIONAL EXPERIENCE

Full Stack Node.js Developer

Invertio Software Solutions

📅 11/2023 - 12/2025   📍 Hyderabad

- Led backend engineering for enterprise-grade web platforms including Aivaah and Anganwadi Web Systems.
- Designed and developed scalable RESTful APIs using Node.js and Express.js ensuring high availability and security.
- Implemented robust authentication systems using JWT, refresh tokens, secure cookies, and Google OAuth integrations.
- Optimized PostgreSQL queries and backend logic, reducing API response time by 30% and improving overall system throughput.
- Engineered file upload and document management workflows using Multer and AWS S3, managing over 10,000 records efficiently.
- Implemented background job processing using pg-boss for asynchronous workflows such as PDF generation and document tracking.
- Integrated caching mechanisms with Redis to enhance performance and reduce database load.
- Collaborated with frontend teams (React.js, Next.js) to deliver full-stack, production-ready features in Agile sprints.
- Ensured secure role-based access control and compliance with best practices in API security and data validation.

PROJECT EXPERIENCE

Greenloop – B2B Waste Management Marketplace (Saudi Arabia)

Tech Stack: Node.js, Express.js, PostgreSQL, JWT, AWS S3, DocuSign API, Algolia Search, Worker Threads, pg-boss, Redis

- Architected and developed scalable backend infrastructure supporting Buyer, Seller, and Admin multi-role workflows.
- Built secure authentication and authorization layers using JWT with refresh token strategy.
- Integrated Algolia Search delivering sub-2 second search performance across 10,000+ marketplace listings.
- Implemented non-blocking PDF generation from dynamic HTML templates using Worker Threads to enhance concurrency.
- Designed background job queue processing using pg-boss for document workflows, DocuSign integration, and asynchronous tasks.
- Integrated DocuSign webhooks for real-time status updates and AWS S3 for secure document storage.
- Leveraged Redis caching to improve marketplace load time and manage real-time chat session state.

Aivaah – EdTech Cloud Learning Platform

Tech Stack: React.js, Next.js, Node.js, Express.js, PostgreSQL, Tailwind CSS, Web Workers, Multer, Google APIs

- Designed and developed a full-stack cloud platform delivering training in Docs, Slides, AI, IoT, HTML/CSS, and Python.
- Implemented secure cookie-based and JWT authentication systems.
- Integrated Google APIs for document editing and developed custom cloud-saving workflows in block-coding modules.
- Improved compute-intensive task performance by 40% using Web Workers for parallel processing.
- Built scalable backend APIs with structured database design in PostgreSQL.

Anganwadi Monitoring System – UP Government Proposal

Tech Stack: React.js, Express.js, Node.js, Firebase, BLE, PostgreSQL, Tailwind CSS

- Developed backend services for structured health data ingestion, validation, and storage.
- Implemented JWT-based authentication and RBAC for secure administrative dashboards.
- Contributed to monitoring dashboards tracking health metrics across multiple Anganwadi centers.
- Collaborated with mobile teams to enable BLE-based device integration for real-time weight tracking and synchronization.
- Focused on responsive UI development and usability optimization for government stakeholders.

PROFESSIONAL SUMMARY

Results-driven Full Stack Node.js Developer with hands-on experience designing, developing, and deploying scalable, secure, and high-performance web applications. Strong expertise in backend architecture, RESTful API development, authentication systems (JWT, refresh tokens), relational databases (PostgreSQL), caching (Redis), and asynchronous job processing (pg-boss). Proven ability to optimize performance (30–40% improvements), integrate third-party APIs (Google APIs, DocuSign, Algolia), and build production-ready systems on AWS infrastructure. Experienced in Agile environments delivering end-to-end full stack solutions using React.js and Next.js.

CORE COMPETENCIES

Group Title

Scalable Backend Architecture

Microservices-Ready API Design

Secure Authentication & Authorization (JWT, Cookies, Refresh Tokens)

Role-Based Access Control (RBAC)

Performance Optimization & Query Tuning

Background Job Processing & Queue Management

Cloud File Storage & Document Workflows

Agile Methodology & SDLC

Debugging & Production Issue Resolution

Responsive UI & Cross-Team Collaboration

Programming & Scripting

JavaScript   TypeScript   HTML5

CSS3

Frontend Development

React.js   Next.js   Redux

Tailwind CSS

Backend Development

Node.js   Express.js

RESTful API Development

Middleware Architecture

KEY ACHIEVEMENTS

✔ **Backend Performance Optimization**
Reduced API response times by 30%, enhancing system performance and efficiency.

✔ **Fast Search Implementation**
Delivered sub-2 second search on 10,000+ listings using Algolia API.

✔ **File Management Workflow**
Handled 10,000+ cloud-based records with Multer and cloud storage integration.

✔ **Compute Performance Improvement**
Boosted compute-heavy operation speed 40% with Web Worker optimization.

EDUCATION

Master of Engineering (M.E.) – Computer Science and Engineering

Osmania University

📍 Hyderabad

Bachelor of Engineering (B.E.) – Computer Science and Engineering

Osmania University

📍 Hyderabad

LANGUAGES

English   Fluent   **Hindi**   Proficient

CORE COMPETENCIES

Databases

PostgreSQL   MongoDB

Caching & Asynchronous Processing

Redis   Pg-boss   Worker Threads

Web Workers

Cloud & DevOps

AWS EC2   AWS S3   Docker

API & Third-Party Integrations

Google APIs   DocuSign API

Algolia Search API

Tools & Platforms

GitHub   Firebase   Postman

soft skill

Analytical Thinking   Problem Solving

Technical Leadership

Cross-Functional Collaboration

Adaptability   Troubleshooting

Team Coordination