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## 0. METADATA:

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## 1. Summary:

This document specifies the professional profile of Richeve S. Bebedor, a senior-level Node.js backend engineer with over a decade of experience designing APIs, distributed systems, and automation platforms. The author specializes in TypeScript-based backend services, background processing systems, cloud-integrated platforms, and reusable infrastructure tooling.

Primary focus areas include scalable backend architecture, system modularity, automation-first engineering, and performance-aware data and media processing pipelines.

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## 4. Career Status:

This document represents a stable description of production-level engineering capabilities demonstrated across startup, enterprise, and contract environments. The intended audience includes engineering teams, system architects, and technical recruiters evaluating backend and platform engineering roles.

### - Focus areas:

- Distributed systems
- APIs
- Automation
- Cloud platforms
- Utilities

## 5. Engineering Principles:

The author follows these engineering principles when designing systems:

- Systems **MUST** be modular, observable, and testable
- APIs **SHOULD** be stateless and versioned
- Background processing **MUST** be fault-tolerant and concurrency-aware
- Infrastructure **SHOULD** be automated and reproducible
- Integrations **MUST** include resilience patterns such as retries, logging, and rate handling

## 6. Technical Scope Definitions:

This section defines key technical terms used throughout this document.

### - Backend System:

Server-side services responsible for APIs, business logic, and data processing.

### - Distributed Processing:

Workloads executed across multiple workers, threads, or services to improve throughput and reliability.

### - Worker Pipeline:

Background job architecture used for CPU or I/O intensive processing such as media transformation.

### - Integration Layer:

Abstraction layer responsible for communication with third-party APIs and external services.

### - Automation Tooling:

CLI or programmatic utilities used to streamline operational or developer workflows.

## 7. Core Competencies:

This section describes the technical competencies organized as system specification subsections.

### 7.1 Core Languages:

- JavaScript Scripting Language (2012-2026 | 14 years)
- TypeScript Scripting Language (2022-2026 | 4 years)
- Node.js Runtime Ecosystem (2012-2026 | 14 years)
- Bash Scripting Language (2012-2026 | 14 years)

### 7.2 Backend Architecture:

- NestJS
- Express
- Fastify
- ActionHero
- RESTful API design
- Microservices
- Service-oriented architecture

### 7.3 Data Systems:

- PostgreSQL
- Sequelize
- MongoDB
- Mongoose
- LevelDB ecosystem

#### 7.4 Distributed and Background Processing:

- Node.js Worker Threads and clustering
- Queue-based job processing
- FFmpeg-based media pipelines
- Concurrency and parallel task execution

#### 7.5 Cloud and Infrastructure:

- AWS
  - EC2
  - S3
  - Lambda
  - SNS
- Microsoft Azure
  - App Services
  - Cosmos DB
  - Networking
- Docker
- Nginx
- PM2
- Linux server environments

#### 7.6 Integration and Automation:

- Payment, media, and SaaS API integrations
- Authentication and SSO integrations
- CLI tooling and automation scripts

### 8. Professional Experience:

This section describes professional work history structured as system implementation records.

#### 8.1 Senior Backend Developer:

Staizen (September, 2024-April, 2025 | 8 months)

##### - System Type:

Enterprise Planning Platform (Gembaa)

##### - Responsibilities:

- Implemented and maintained NestJS microservices for enterprise workflow processing
- Resolved production issues and delivered new backend features
- Contributed to API reliability and test coverage using Jest

##### - Technologies:

- Node.js
- TypeScript
- NestJS
- PostgreSQL

##### - Impact:

Improved system reliability and feature delivery velocity for enterprise planning workflows.

## 8.2 Full Stack Developer:

Narrasoft (March, 2022-July, 2023 | 1 year & 5 months)

- System Type:

  - Accounting and Billing Platform

- Responsibilities:

  - Maintained and enhanced backend services supporting financial workflows
  - Worked across API, database, and frontend integration layers

- Technologies:

  - Node.js
  - TypeScript
  - Angular
  - Express
  - MongoDB
  - PostgreSQL

- Impact:

  - Enabled continuous feature delivery for financial workflow automation.

## 8.3 Lead Web Developer and System Architect:

BIA Jiros Travel and Tours (August, 2015-October, 2023 | 8 years & 3 months)

- System Type:

  - Online Transport Booking Platform (Biyaheroes)

- Responsibilities:

  - Served as system architect and lead engineer for full platform lifecycle
  - Designed backend services, databases, and infrastructure deployment
  - Managed production AWS EC2 environments and MongoDB systems

- Technologies:

  - Node.js
  - Express
  - AngularJS
  - React
  - MongoDB
  - AWS EC2

- Impact:

  - Architected and delivered a nationwide transport booking platform serving thousands of users.

## 9. Selected System Implementations:

This section highlights engineering showcases structured as system specifications.

### 9.1 Distributed Media Processing Pipelines:

Designed concurrent media processing services using Node.js worker threads and FFmpeg for automated transcoding and metadata extraction.

### 9.2 Modular API Integration Frameworks:

Developed reusable service patterns for integrating third-party platforms with standardized logging, retry logic, and error handling.

### 9.3 Background Worker Orchestration Systems:

Built queue-driven worker systems for handling asynchronous and high-volume processing workloads.

### 9.4 Transport Booking System Architecture:

Architected scalable backend services and infrastructure for a nationwide transport booking platform.

#### A. Open Source and Tooling Contributions:

This section describes ecosystem contributions and reusable infrastructure development.

- Author of some GitHub repositories focused on backend utilities and developer tooling
- Publisher of some NPM packages related to Node.js infrastructure, automation, and data processing
- Emphasis on reusable modules, CLI tools, and backend service helpers

#### B. System Architecture Philosophy:

The author favors modular service-oriented design, observable backend components, automation-first infrastructure, performance-aware data pipelines, and cloud-native scalability.

#### C. Education:

- Bachelor of Science in Computer Science

AMA University (2007 - 2011 | 4 years)

Thesis involved neural network concepts and handwriting analysis using object-oriented simulation models.

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