

GEORGE JOSEPH

Backend Engineering Lead | Node.js | Enterprise APIs | Identity Verification Platforms | Cloud Integrations
+971 50 513 1641 | info@georgepj.me | @linkedin/georgepjoseph | georgepj.me | Abu Dhabi, UAE

SUMMARY

Backend-first Senior Application Engineer with 14+ years delivering production APIs, enterprise integrations, identity verification platforms, OCR/NFC workflows, real-time monitoring, and mobile-connected systems.

Strong in Node.js, Express.js, LoopBack 4, REST/SOAP APIs, SQL/NoSQL, messaging, AWS/Firebase, Android/Kotlin/Flutter, SDK workflows, POCs/MVPs, production troubleshooting, and technical leadership.

EXPERIENCE

Senior Software Engineer / Senior Application Engineer

Artificial Intelligence Center Limited / AI Center

Nov 2018 - Present | Abu Dhabi, UAE

- Designed, developed, and maintained 100+ backend APIs/services for identity verification, airport automation, marina operations, booking, security monitoring, and real-time platforms.
- Contributed to PureLive Suite: liveness verification backend and SDK platform with PKI/TTL-token security, licensing, analytics, authentication, OCR/NFC, and multi-platform SDK support.
- Integrated 8+ QuickBooks workflows/entities in Class Marine App across customers, vendors, purchase orders, invoices, estimates, stock, payments, and accounting synchronization.
- Reduced processing failures/timeouts by 95% through timeout handling, retry logic, failure-location tracking, and backend workflow hardening.
- Reduced manual accounting/booking effort by 95% through backend-driven automation and operational workflow integrations.
- Supported SmartPass, FaceBlade, and SmartTrack workflows covering passenger monitoring, face recognition, RFID tracking, device/user management, blacklist alerts, and security monitoring.
- Improved backend operational performance by 60% through service optimization, deployment workflow improvements, troubleshooting, and production issue analysis.

KEY ACHIEVEMENTS

Backend & Integration Scale

Designed/developed 100+ backend APIs/services and integrated 8+ QuickBooks workflows/entities across enterprise platforms.

Reliability & Automation Impact

Reduced processing failures/timeouts by 95%, manual accounting/booking effort by 95%, and improved backend operational performance by 60%.

Identity & Security Platforms

Delivered backend work across PureLive, SmartPass, FaceBlade, and SmartTrack: liveness, OCR/NFC, PKI, face recognition, RFID, and monitoring.

Leadership & Mentoring

Held senior/lead roles across application, product, project, and mobile engineering; mentored/trained 60+ engineers and interns.

SKILLS

Node.js	Express.js
LoopBack 4	REST APIs
SOAP APIs	API Design
Webhooks	OpenAPI
Swagger	MySQL
MSSQL	PostgreSQL
MongoDB	Mongoose
Redis	Data Modeling
Indexing	Aggregation
QuickBooks API	Third-Party APIs
Socket.IO	WebSockets
MQTT	RabbitMQ
JWT	OAuth2
RBAC	PKI
TTL Tokens	OCR
NFC	MRZ Reader
OpenCV	Face Recognition
RFID	Liveness Detection
AWS S3	AWS Cognito
CloudWatch	Firebase
PM2	Docker

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SELECTED PROJECT HIGHLIGHTS

PureLive Suite

Liveness verification backend and SDK platform with PKI/TTL-token security, licensing, analytics, authentication, OCR/NFC, and Android/iOS/React Native SDK support.

Class Marine App

Marina management suite with QuickBooks integration for customers, vendors, purchase orders, invoices, estimates, stock, payments, and accounting synchronization.

SmartPass / FaceBlade / SmartTrack

Airport automation and security monitoring workflows for passenger monitoring, face recognition, RFID tracking, blacklist alerts, device/user management, and real-time visibility.

Best Marine Floating Island

Booking and payment module for slot reservations, event customization, amenities, notifications, and operational workflows.

ADDITIONAL EXPERIENCE

Lead Product Associate

Bitryt Solutions Pvt. Ltd.

Jan 2018 - Oct 2018 | Kochi, India

- Led Android and Node.js/Express.js development for product, OTT, streaming, and event-related application workflows.
- Developed backend APIs and mobile features while coordinating technical design, delivery planning, and development execution.

Product Engineer

Cinesoft Pvt. Ltd.

Oct 2017 - Dec 2017 | Kochi, India

- Built Android mobile/tablet, Android TV, Firestick, IPTV, and OTT streaming applications; supported architecture, integration, and documentation improvements.

Earlier Engineering Leadership Roles

Techxform | SAR Inventions | Copperseeds | Aitrich

Dec 2011 - Oct 2017 | India

- Led Android, ERP, CRM, security, survey, education, finance, restaurant, legal, healthcare, utility, and productivity applications across earlier engineering roles.
- Managed mobile/web teams, trained junior developers, and guided OOP development, database design, modularization, feasibility analysis, and product delivery.

EDUCATION

Diploma in Electronics Engineering

G.P.T.C Chelakkara, Kerala

Technical SSLC - THS Shoranur, Kerala

CERTIFICATIONS

- Performance Excellence in Mentorship - Aitrich Technologies
- Aitrich Trained Professional (ATP) in Android
- Building an Android App with Architecture Components
- Learning Google Flutter for Mobile Developers
- 30 Days of DSA
- Learning ECMAScript 6

STRENGTHS

Backend Ownership

API Design

Integration Architecture

System Design

Technical Leadership

Mentoring

Troubleshooting

Production Support

Agile Delivery

Service Optimization

ADDITIONAL SKILLS

CI/CD	Bitbucket Pipelines
Git	Postman
Grafana	Loki
Android	Kotlin
Java	Flutter
Dart	SOLID
OOP	Agile/Scrum
TypeScript	Jest/Mocha
Kubernetes	SQS & SNS
AWS Lambda	NGINX
Clean Architecture	Design Patterns
Next JS	Flutter