

Santosh Kumar Patra

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PROFESSIONAL SUMMARY

Backend Engineer with experience building scalable, production-grade systems using Node.js and Sails.js. Skilled in secure REST API design, distributed services, real-time systems, background processing, and multi-database architectures (PostgreSQL, MongoDB, Redis, Elasticsearch). Experienced with AWS Lambda, GCS, AWS S3 and third-party integrations across payments, analytics, search, and AI platforms. Focused on clean code, reliability, and scalable backend architecture, with full ownership from design to production.

TECHNICAL SKILLS

Languages: JavaScript, SQL

Backend: Node.js, Sails.js (MVC), Express.js, REST APIs

Databases: PostgreSQL, MongoDB, Redis, Elasticsearch

Integrations: Balance, ACH, Stripe, Avalara, AfterShip, Firebase, Klaviyo, Intercom, Slack, SendGrid

AI & Analytics: OpenAI SDK, Anthropic SDK, Amplitude

Search Engines: Elasticsearch, Algolia

Testing & Quality: Mocha, Chai, Sinon, Supertest, ESLint, Code Reviews

Security & Auth: JWT, bcrypt, Joi

Async Processing: Cron Jobs, Queues, Background Workers

Utilities: Google Cloud Storage, AWS S3, AWS Lambda, Axios

Tools: Git, Postman, Webstorm, Cursor

WORK EXPERIENCE

Minoan Experience Inc., Noida
Software Engineer II

Dec 2022 – Present

- Migrated image processing and PDF generation from a dedicated server to **AWS Lambda serverless functions**, eliminating peak-load crashes, achieving **99%+ reliability** (from 85%), and reducing processing time by **60%**.
- Led backend execution for **Canadian market expansion** post U.S. launch, implementing localized content delivery, multi-currency pricing, and regional payment methods (PAD, ACH, credit cards).
- Designed and implemented **Elasticsearch-based search and filtering**, reducing query latency by **75%** and enabling fast, complex queries across large datasets.
- Architected a **fully automated Klaviyo integration** for real-time syncing of user profiles, purchases, and engagement data, **eliminating manual data operations** and enabling the marketing team to independently run personalized campaigns and segmentation.
- Integrated **Delighted** for automated user feedback collection, providing continuous customer satisfaction insights to product and marketing teams.
- Improved **system security and operational reliability** by enforcing parameterized SQL queries and implementing automated **Slack-based alerting**, reducing incident response time by **50%**.
- Integrated external services including **Google Maps API, AfterShip, and Firebase** to enable real-time shipment tracking, interactive showroom map views, notifications, and third-party workflows.

EDUCATION

Lovely Professional University
Bachelor of Technology (B.Tech.) in Electrical and Electronics Engineering

Aug 2014 – Jun 2018