Aaron Dsilva

Tech Lead & CTO | AI, Security & Full-Stack Engineering | Healthcare, SaaS & E-commerce

React Native, Flutter, Node, Rails, Laravel | RAG Pipelines (Neo4j, Pinecone, Claude API) | AWS | Security & Compliance

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📍 Pune, Maharashtra, India

I build secure, AI-powered systems as a Tech Lead and CTO. Full-stack development across React Native/Flutter apps to Node/Rails/Laravel backends with RAG pipelines. I write code, architect infrastructure, lead teams, and ship products that work.

Over 8 years, I've shipped production systems across healthcare, SaaS, and e-commerce. Healthcare: 100+ hospitals, FDA/HIPAA compliance. E-commerce: Multi-vendor marketplaces from zero to 100% uptime. Security: ISO 27001 platforms, pen testing remediation in production code.

I implement AI/RAG systems (Neo4j, Pinecone, Claude API) into production, fix security issues from pen tests (actual code, not reports), and build systems that pass audits: HIPAA, SOC2, GDPR, FDA, ISO 27001. Worked with King's College London, Johnson & Johnson, and European hospital networks across US, Europe, and India.

AWS Solutions Architect - Associate and PSM I certified. Based in Pune, working with clients globally.

Key Achievements

- **Healthcare:** 100+ hospitals, FDA/HIPAA/SOC2, 99.9% uptime, zero security incidents
- **E-commerce:** Rebuilt marketplace from constant crashes to 100% uptime
- **Security:** ISO 27001 pen testing platform, implemented fixes in production
- **AI/RAG:** 4+ production systems with Neo4j, Pinecone, Claude API
- **$1M+** AWS cost savings through architecture optimization (33% reduction)
- **Leadership:** Led 10 engineers across time zones, shipped 6 products

Experience

Co-Founder | Technical Lead

The Lean Product Studio
Pune, Maharashtra, India
Jan 2024 - Present

I build products from scratch and lead a distributed team of 10 engineers. Hands-on development across mobile, web, cloud infrastructure, and AI/RAG systems. Shipped systems across healthcare, e-commerce, security, and research tools.

E-commerce:
- Rebuilt Multi-Vendor Marketplace V2 from scratch (Flutter + Node + MongoDB): fixed constant crashes to 100% uptime, rebuilt broken UI/UX, built admin panels for vendor management

Security & SaaS:
- Built Security Testing Platform connecting pen testers to developers with NestJS backend—centralized workflow, regression tracking, ISO 27001 compliance

Healthcare & AI:
- Built AI Ambient Listening RAG System: AWS Comprehend Medical + Claude API + Neo4j knowledge graphs with HIPAA-compliant PHI anonymization
- Built MCP server for healthcare research enabling no-code data access and real-time analytics for researchers across US/EU
- Rebuilt Women's Health Platform V2 from scratch in Flutter (UK/Africa): cycle tracking, provider connections, multi-language support, GDPR compliance

Infrastructure & Cost Optimization:
- Reduced AWS costs by 33% for healthcare client ($1M annual savings) through architecture optimization and right-sizing

`Flutter` `Node.js` `NestJS` `Python` `AWS Comprehend` `Claude API` `Neo4j` `Pinecone` `MCP` `MongoDB` `PostgreSQL` `AWS`

Domains: E-commerce, Security/SaaS, Healthcare, AI | Compliance: HIPAA, GDPR, ISO 27001 | Markets: US, UK, Africa, India, EU

Senior Full Stack Developer

OpsFuse Technologies Pvt. Ltd.
Pune, Maharashtra, India
Feb 2023 - Present

Full-stack platform serving 100+ organizations across US and India. Led pen testing remediation (implemented all security fixes in production code), built scalable AWS infrastructure with PostgreSQL RLS for secure multi-org data isolation. Achieved 100% uptime with zero security incidents.

- Security: Led pen testing remediation—implemented all security fixes in React Native and Flask codebase, passed FDA/HIPAA/SOC2 audits
- Architecture: Built AWS infrastructure with PostgreSQL Row-Level Security (RLS) for secure organization data isolation at scale
- Reliability: Achieved and maintained 100% uptime serving 100+ organizations with zero security incidents
- Compliance: Built encryption, access controls, audit logging, and disaster recovery into every layer

`React Native` `Flask` `PostgreSQL (RLS)` `AWS` `Pen Testing`

Domain: Healthcare SaaS | Compliance: FDA, HIPAA, SOC2, ISO 27001 | Scale: 100+ orgs, 100% uptime | Markets: US, India

Mobile Developer
Avegen

Pune, Maharashtra, India

Jun 2021 - Feb 2023

Built GDPR-compliant mobile applications for European and US markets. Multi-tenant SaaS architecture allowing multiple organizations on the same codebase with complete data isolation. Fully configurable without code changes.

- Multi-tenant architecture: Complete data isolation, each client customizes through admin settings without code changes
- GDPR compliance: Built encryption, privacy controls, consent management, right to be forgotten into every layer
- Multi-language support: Fully internationalized system for European and US markets
- Led full development cycle from requirements gathering to production deployment

React Native   Ruby on Rails   AWS   PostgreSQL

Domain: Healthcare SaaS | Compliance: GDPR | Architecture: Multi-tenant, multi-language | Markets: Europe, US

Full Stack Engineer
Kalyani Studio

Pune, Maharashtra, India

Mar 2020 - Jun 2021

Technology Engineer
Kalyani Studio

Pune

Jan 2020 - Mar 2020

Technical Development Engineer
SENSE IT OUT INTELLIGENT SOLUTIONS PVT LTD

Pune Area, India

Aug 2018 - Jan 2020

Intern
SENSE IT OUT TECHNOLOGIES

Pune Area, India

Aug 2016 - May 2018

Technical Skills

TOP SKILLS

Full-Stack Engineering, AWS Architecture, Security & Compliance

LANGUAGES

Python, JavaScript, TypeScript, Dart, PHP, Ruby

MOBILE

React Native, Flutter

BACKEND

Node.js, Rails, Laravel, Flask

CLOUD

AWS (Lambda, EC2, RDS, S3, CloudFront, API Gateway)

DATABASES

PostgreSQL (RLS), MongoDB, Neo4j (graphs), Pinecone (vector), Redis, MySQL

AI & RAG

Neo4j, Pinecone, LangChain, Claude API, Gemini, AWS Comprehend Medical, MCP, Embeddings

COMPLIANCE & SECURITY

FDA, HIPAA, SOC2, ISO 27001, GDPR, Pen Testing, Security Architecture

SPECIALTY

Healthcare Systems, Offline-First Apps, Disaster Recovery, Multi-Tenant Architecture

Certifications

⊘ Professional Scrum Master™ I (PSM I)

⊘ Advanced Certification in Cloud, Blockchain & IoT — IIT Madras

⊘ AWS Solutions Architect - Associate

Education

Bachelor of Engineering - BE, Mechanical Engineering
Modern Education Society's College of Engineering, Pune
2014 - 2018

HSC, Science
Modern Education Society's Nowrosjee Wadia College Arts, Science, Pune
2012 - 2014