

Arman Yeghiazaryan

Senior Full-Stack Engineer

Node.js • Electron • AI Orchestration

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🌐 otanim.com 🔗 github.com/otanim 👤 linkedin.com/in/otanim 📖 Stack Overflow

TECHNICAL FOCUS

Node.js & TypeScript Cross-Platform Development

AWS Infrastructure (IaC) AI Agent Orchestration

React & Frontend Systems Security & DevOps

Database Architecture Signal Processing & BCI

LANGUAGES

English (Fluent/C1)

Armenian (Native)

Russian (Fluent/C1)

SUMMARY

Senior full-stack engineer with 11 years architecting Node.js platforms and building production applications serving millions of users. Expert in Node.js/TypeScript architecture, with 5 years production experience building Electron desktop applications, AWS infrastructure-as-code, and pioneering AI-assisted development through multi-agent orchestration (Claude/Codex). Proven technical leader reducing incidents by 40%, mentoring distributed teams of 6+ engineers, and accelerating feature delivery by 30% through intelligent automation workflows. Currently exploring neurotechnology through brain-computer interface research. Seeking senior Node.js/Electron development, cybersecurity, neurotechnology, or engineering leadership roles.

KEY ACHIEVEMENTS

- Optimized API performance, reducing average response time from 900ms to 450ms through strategic caching and query optimizations.
- Pioneered AI-orchestrated development workflows by architecting multi-agent systems that distribute complex tasks across Claude and Codex, automating code generation, testing, and refactoring - accelerating feature delivery by 30% while maintaining 85%+ test coverage.
- Reduced platform downtime by 40% through proactive monitoring, incident prevention, and rapid response workflows.
- Built automated ingestion pipelines processing 90K+ job listings daily from 50+ sources with 99.7% accuracy.
- Reduced failed deployments by 60% by stabilizing failing tests and enforcing CI checks; wrote custom Git pre-commit/pre-push hooks to detect unencrypted keys.
- Implemented automated secrets scanning across 12 repositories, catching and preventing 8 credential exposures before production.

CORE SKILLS

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| Languages: JavaScript/TypeScript, PHP, Python, SQL | Frontend: React, HTML, CSS (Sass/SCSS), Vite, Webpack |
| Backend: Node.js, Express, NestJS, Laravel | Desktop & Mobile: Electron.js (5 yrs), CapacitorJS |
| Cloud & DevOps: AWS (RDS, S3, CloudFront, Route53, SES, ACM, IAM, Lambda, API Gateway, EC2, Elastic Beanstalk), Terraform, Docker, Nginx, Linux | Data & Caching: MySQL, PostgreSQL, MongoDB, Redis, Memcached |
| AI Orchestration: Multi-agent systems, distributed agent coordination, load-balancing algorithms, prompt engineering, Claude/Codex integration | Quality & Security: Jest, PHPUnit, Puppeteer, E2E testing, secrets scanning, OWASP-aligned reviews |
| CI/CD & Tooling: Jenkins, GitHub Actions, Git, Jira, Postman | Scripting: FontForge CLI, Inkscape CLI, Bash automation |

EXPERIENCE

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| Ringier South Africa (Pty) Ltd <i>Senior Full-Stack Engineer / Software Architect — Remote/Yerevan</i> | June 2021 - Present |
| <ul style="list-style-type: none">• Build and evolve multi-domain job platforms with employer self-service (ATS integration, admin dashboards) - deliver features across Laravel/React.• Implemented fully automated daily ingestion handling 90K+ job listings from 50+ sources via RSS and AWS S3 feeds, with automatic expiration, de-duplication, validation, and monitoring.• Security hardening: rotated credentials, prevented incidents, improved audit posture.• Built data integrity checks and E2E validation for ingestion - reduced noisy failures.• Pioneered AI-orchestrated development with custom automation scripts enabling Claude/Codex agents to work in parallel - accelerating delivery by 30%. | |
| MyJobs Myanmar <i>Software Architect and Lead Back End Developer</i> | Jun 2018 - Jun 2021 |
| <ul style="list-style-type: none">• Led backend architecture for high-traffic job platform handling 2M+ requests/day - directed 4 engineering teams across 3 time zones.• Built Node.js APIs and services - designed performant PostgreSQL schemas with focus on scalability.• Operated AWS workloads (Lambda, API Gateway, EC2, RDS, S3, CloudFront) - added monitoring and alerting.• Introduced structured testing and CI pipelines - improved release confidence.• Mentored engineers through code reviews and pair programming.• Participated in hiring: defined roles, designed technical interviews, conducted assessments. | |
| Inforuptcy <i>Front End Developer</i> | Jul 2016 - Jan 2018 |
| <ul style="list-style-type: none">• Built React/Redux features and reusable UI components - collaborated with backend on API contracts.• Established modern front-end tooling (Webpack/Babel) and improved accessibility and maintainability. | |

Simply Technologies

Jun 2015 - Jul 2016

Full Stack Developer

- Implemented RESTful services in Node.js/Express with MongoDB integration.
- Contributed across multiple front-end stacks (React, Angular, Knockout) and build systems.

LinguaCode (startup)

May 2015 - Sep 2020

Founder, Full-Stack Developer

- Founded multilingual social coding platform enabling children to learn programming in their native language.
- Shipped cross-platform desktop app (forked Notepad++) and React web app.
- Ran pilot cohorts with 100+ students across 3 schools.

Shirak Technologies

Jun 2014 - Jan 2015

SAP Basis Administrator

- Supported SAP Basis operations, taught JavaScript, handled sysadmin tasks.

EDUCATION

State Engineering University of Armenia (Polytechnic)

Sep 2012 - May 2014

Applied Mathematics and Informatics — Yerevan

BSc coursework, Applied Mathematics & Informatics

SIDE PROJECTS

Custom Handwriting Font Generator (2025-Present)

Cross-platform Electron desktop application for generating personalized Armenian handwritten fonts with configurable weights, automatic kerning calculations. Features FontForge and Inkscape CLI integration, real-time font preview, batch processing, and automated export workflows.

Multi-Agent AI Orchestration Achievement: Architected 7-agent parallel orchestration system automating 2,075 documentation tasks across 213 TypeScript/React files. Designed greedy load-balancing algorithm (~297 tasks/agent, <1% variance). Achieved 86% reduction in compute cycles, 7x throughput improvement, and 40-60% improvement in AI code generation quality.

Tech: Electron.js, Node.js, React, TypeScript, FontForge CLI, Inkscape CLI, Python, Bash

Brain-Computer Interface Research Platform (2024-Present)

Experimental neurotechnology platform for real-time brain activity monitoring using OpenBCI Cyton + Daisy 16-channel EEG. Built Electron desktop app for real-time EEG visualization with Node.js backend integrating Python/Brainflow for biosignal acquisition. Real-time streaming of 16-channel neural data at 250Hz. Research directions include attention/focus detection, meditation monitoring, and neurofeedback mechanisms.

Tech: Electron.js, Node.js, React, Python, Brainflow, OpenBCI, Signal Processing, WebSockets, ML

Customs Declaration Automation Tool (2024)

Intelligent document processing Electron app orchestrating Codex for PDF parsing (invoices, bank confirmations, passports), HS code calculation, and automated form filling across 15+ customs documents. Multi-agent workflow with specialized AI agents for different document types. Reduced customs declaration time from 8 hours to 15 minutes per shipment.

Tech: Electron.js, Node.js, OpenAI Codex, Puppeteer, PDF parsing

Smart Home Automation System (2020-2023)

Full-stack IoT platform on Raspberry Pi managing lights, climate, security, and weather integration. Electron-based real-time dashboard for wall-mounted touchscreen with live sensor monitoring. Node.js/Express backend with automation rules engine and WebSocket updates.

Tech: Electron.js, Node.js, React, Raspberry Pi, WebSockets, PostgreSQL