

# Arman Yeghiazaryan

## Senior Full-Stack Engineer

Node.js • Electron • AI Orchestration

✉ contact@otanim.com ☎ +37444311107 Ⓜ Yerevan, Armenia

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### 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.

- Led and mentored 6 engineers across distributed teams - improving code review turnaround by 40%, reducing post-deployment bugs by 35%.
- Standardized documentation across 4 time zones, reducing mean time to resolution from 6 hours to 2 hours.

## CORE SKILLS

**Languages:** JavaScript/TypeScript, PHP, Python, SQL

**Backend:** Node.js, Express, NestJS, Laravel

**Cloud & DevOps:** AWS (RDS, S3, CloudFront, Route53, SES, ACM, IAM, Lambda, API Gateway, EC2, Elastic Beanstalk), Terraform, Docker, Nginx, Linux

**AI Orchestration:** Multi-agent systems, distributed agent coordination, load-balancing algorithms, prompt engineering, Claude/Codex integration

**CI/CD & Tooling:** Jenkins, GitHub Actions, Git, Jira, Postman

**Frontend:** React, HTML, CSS (Sass/SCSS), Vite, Webpack

**Desktop & Mobile:** Electron.js (5 yrs), CapacitorJS

**Data & Caching:** MySQL, PostgreSQL, MongoDB, Redis, Memcached

**Quality & Security:** Jest, PHPUnit, Puppeteer, E2E testing, secrets scanning, OWASP-aligned reviews

**Scripting:** FontForge CLI, Inkscape CLI, Bash automation

## EXPERIENCE

### Ringier South Africa (Pty) Ltd

June 2021 - Present

*Senior Full-Stack Engineer / Software Architect — Remote/Yerevan*

- 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

Jun 2018 - Jun 2021

*Software Architect and Lead Back End Developer*

- 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

Jul 2016 - Jan 2018

*Front End Developer*

- 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*