ALINA ARAKELYAN

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SENIOR SOFTWARE ENGINEER

Senior Software Engineer with 6+ years of experience building high-reliability backend and full-stack systems in regulated, large-scale environments. Strong background in Java backend services, API and distributed system design, and modern frontend frameworks (Angular, React). Proven track record delivering mission-critical healthcare platforms at national scale, where reliability, correctness, and uptime are non-negotiable.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL
Backend / Platform: REST APIs, Distributed Systems, CI/CD, AWS, OOP
Frontend: Angular, React, HTML, CSS
Data: MySQL, Postgres, Oracle
Tools: Git, Jenkins

PROFESSIONAL EXPERIENCE

Evideon (TigerConnect) — Senior Software Engineer *(Official Title: Software Developer II)*
Remote | 09/2022 – Present
• Built and maintained high-availability backend services and APIs supporting nationwide hospital deployments (Mayo Clinic, Northwell Health, Tampa General, VA medical centers).
• Contributed to a large-scale backend modernization (Java 8 → 17, Spring Boot 2 → 3), collaborating on Jakarta EE migration and remediation of critical security vulnerabilities in production systems.
• Architected network resilience and recovery mechanisms for hospital-deployed iPads, resolving outages caused by captive portals, Wi-Fi transitions, and transient network failures.
• Delivered end-to-end full-stack features across Java backend, Angular web apps, and native iOS (Swift), including motion-detection functionality for 24/7 clinical environments.
• Integrated iPad-based digital door signage with HatchMed signaling devices and maintained compatibility across iPad hardware generations (Gen 9–11), ensuring reliable real-time visual communication in clinical settings.
• Led data-driven reporting and analytics workflows, becoming a subject-matter owner and mentoring teammates on system behavior and metrics.
• Drove accessibility and ADA compliance improvements, raising Lighthouse accessibility scores from 62 → 93 across patient-facing applications by implementing semantic HTML, ARIA patterns, keyboard navigation, and screen-reader enhancements.
• Applied AI-assisted development tools to accelerate debugging, refactoring, and accessibility improvements while maintaining strong code review, testing, and production-quality standards.

Olive AI — Software Engineer I | Remote | 12/2021 – 07/2022
• Built backend services in TypeScript/Node.js supporting AI-driven healthcare automation, deployed across hundreds of hospital systems at a high-growth healthcare AI startup (valued up to ~$4B at peak).
• Implemented data extraction, transformation, and integration workflows powering automated administrative processes (JSON-based pipelines).
• Worked closely with machine learning engineers and data scientists to translate ML-assisted workflows into production-ready backend services, ensuring correctness and scalability in regulated environments.
• Developed unit and end-to-end tests for data-critical workflows and partnered with QA to reduce regression risk in production systems.

ReadyComputing — Integration Engineer | Remote | 06/2020 – 12/2021
• Developed backend services and APIs supporting the U.S. Department of Veterans Affairs COVID-19 vaccination infrastructure, used by 9+ million Veterans, employees, and family members nationwide.
• Implemented audit logging and data-integrity safeguards to ensure accurate, traceable vaccination records across federal healthcare systems.
• Built ETL pipelines and healthcare data integrations (ObjectScript, Python, SQL; SDA → HL7) feeding national surveillance and analytics platforms across 1,293 healthcare facilities.
• Deployed CI/CD pipelines to AWS and served as an escalation engineer for complex production issues in mission-critical healthcare systems.

EDUCATION

Flatiron School — Software Engineering Immersive, CUNY Kingsborough - Completed 91 credits