**Tarek Alaaddin**

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### Summary

Senior Software Engineer / Technical Lead with 20+ years building mission-critical systems in **Java/Spring**, **React/Next.js**, and **cloud**. Lead large migrations, high-volume data processing, and AI-assisted “vibe coding” workflows that deliver features **3–5x faster** while maintaining clean architecture, performance, and reliability.

### Technical Skills

* **Languages:** Java, Kotlin, C#, Python, JavaScript, SQL
* **Backend:** Spring Boot, Spring Batch, Hibernate, .NET Core, Struts
* **Frontend:** React, Next.js
* **Cloud & DevOps:** Azure, AWS, Jenkins, Azure DevOps, Git, CI/CD
* **Databases:** Oracle, SQL Server, PostgreSQL
* **Testing:** JUnit, Selenium
* **Practices:** REST APIs, system design, Agile/Scrum

### Experience

**Senior Programmer Analyst / Technical Lead (Contract)** – Texas Commission on Environmental Quality

*May 2025 – Present*

* Lead migration of a legacy **Java Struts** system to **Spring Boot + React**, defining architecture, coding standards, and best practices.
* Own backlog, drive sprint planning, and coordinate with DBAs and DevOps to deliver secure, performant releases.
* Use AI-assisted development to accelerate feature delivery and refactoring while keeping a robust, testable codebase.

**Senior Programmer Analyst** – General Motors

*Jan 2018 – Mar 2025*

* Led a 15-person team to deliver the **MyBA admin app** from concept to production in 9 months.
* Architected and built the **CAP Agreements** platform in **Spring Boot + Azure**, one of the most used fleet-discount systems.
* Developed **Spring Batch** jobs processing millions of records daily, improving data freshness and system responsiveness.

**Senior Programmer Analyst** – Texas Commission on Environmental Quality

*Aug 2006 – Dec 2017*

* Enhanced and supported large-scale permitting and compliance systems used statewide.
* Modernized legacy components and improved reliability through automation, monitoring, and better deployment practices.

**AI-Accelerated “Vibe Coding” Product Development (Independent)**

*2023 – Present*

* Use AI tools (**Claude Code, Copilot/Codex, Gemini**) to achieve near team-level speed and quality as a solo dev.
* Built 3 SaaS apps with **Next.js + Supabase**:
  + **Taskitos** – task manager that “nags” tasks to done with smart notifications.
  + **ExpandNote** – simple notes with automation hooks (“notes + Zapier”).
  + **PropertyPulse360** – property management app for small landlords (rent, expenses, distributions, lease expirations).

### Education

**B.S. Computer Science** – University of Houston, Houston, TX