ABDALLAH ARSLAN

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Senior Software Engineer | React · TypeScript · AWS | AI Applications & Agentic Workflows

SUMMARY

Senior Software Engineer with 8+ years building software for the web, including high-scale React and TypeScript platforms across enterprise fintech, retail, and consulting. Operates with staff-level ownership on Deluxe's R360+ receivables platform, shaping frontend architecture, cross-team delivery, reliability, and AI-assisted engineering practices for systems handling millions of payment records. Builds production-grade developer tooling, including a Chrome Web Store extension, open-source LLM skill analysis and prompt-injection review software, and a modular engineering-rule system for coding agents. Combines deep frontend engineering, cloud foundations, product judgment, and prior business leadership to turn complex requirements into reliable software and measurable commercial outcomes.

CORE COMPETENCIES

AI & Intelligent Applications: Anthropic Claude API, Amazon Bedrock, Google Vertex AI, Model Context Protocol (MCP), agentic workflows, subagents, agent skills, prompt and context engineering, AI code review, prompt-injection analysis, human-in-the-loop workflows

Software Engineering: TypeScript (strict), JavaScript, React 18/19, Node.js, Next.js/SSR, Python, .NET integration, REST, GraphQL, Jest, Vitest, Cypress, Playwright

Frontend Architecture: Micro-frontends, design systems and component libraries, Redux and modern state patterns, accessibility (WCAG, axe), Core Web Vitals, Vite, Webpack

Cloud & Delivery: AWS, Docker, serverless patterns, GitHub Actions CI/CD, Dynatrace, Splunk, feature flags, performance budgets, reproducible builds and release engineering

Leadership & Product: Frontend architecture, technical planning and RFCs, team onboarding, mentorship, cross-functional delivery, client leadership, product strategy, business operations

PROFESSIONAL EXPERIENCE

Deluxe Corporation - Senior Software Engineer (SWE 5) | *Remote / Atlanta, GA* *Oct 2022 - Present*

- Operate with staff-level ownership on R360+, Deluxe's cash-application and receivables platform built with React, TypeScript, .NET, and AWS; drive frontend architecture, major refactors, and delivery planning across teams supporting millions of payment records for enterprise clients.
- Lead adoption of AI-assisted engineering across teams by authoring reusable agent skills and a modular engineering-rule system, establishing context, verification, and review standards that move LLM-generated code from draft output to maintainable production software.
- Onboard engineering teams through architecture walkthroughs, coding conventions, reusable patterns, and typed CI quality gates; mentor mid-level through senior engineers and raise consistency across the platform.
- Delivered the initial platform launch six months ahead of schedule and accelerated development timelines approximately 30% through modernized React/TypeScript architecture, reusable components, and stricter automated quality gates.
- Maintain production reliability on high-traffic enterprise surfaces using Dynatrace and Splunk observability, performance budgets, incident triage, and feature-flagged rollouts.

Walmart Global Tech - Senior Software Engineer (Contract) | *Remote* *Jun 2022 - Oct 2022*

- Built high-traffic customer-facing application surfaces using Next.js, TypeScript, Redux, and Node.js, contributing to a measured 20% increase in user engagement on delivered features.
- Translated complex Figma designs into accessible production React components roughly 25% faster than baseline through reusable accessibility-first patterns, shared utilities, and stricter typing.
- Shaped feature direction and implementation details in cross-functional discussions with product, design, and engineering.

SUR Consulting - Software Engineer | *Atlanta, GA* *Mar 2020 - Jun 2022*

- Delivered web applications across concurrent client engagements using React, JavaScript, Java, SQL, AWS, and Python; standardized performance budgets and rendering optimizations that reduced load times approximately 15% across projects.

- Owned client relationships from kickoff through launch, including daily communication, scope negotiation, delivery planning, risk management, and Agile execution.
- Coordinated project teams of five or more engineers across mixed technology stacks while maintaining delivery quality and stakeholder alignment.

EARLIER EXPERIENCE & COMMERCIAL LEADERSHIP

Remedi Medical Solutions - Web Developer / Business Operator | *Duluth, GA* *Jan 2018 - Dec 2019*

- Built and maintained the company website and multiple e-commerce properties using WordPress, Shopify, JavaScript, and Python; UX and SEO improvements drove approximately 20% conversion uplift.
- Applied founder-level ownership across product, operations, sales, client relationships, and process design, translating customer needs into practical digital solutions.

Earlier Career - Business Analyst, Multifoods Inc. | Sales Consultant, Flooring International Distribution *2015 - 2018*

- Analyzed international trade data in Python to identify market-expansion opportunities and grew qualified sales leads approximately 25% through digital marketing while managing the full customer lifecycle.

SELECTED PROJECTS

Skillcheck - LLM Skill Evaluation & Safety Tool | *GitHub · Live demo*

- Built an open-source, local-first analyzer that compares LLM skill files using Myers line diffing, deterministic scoring across five quality dimensions, and heuristic prompt-injection detection across ten attack categories with homoglyph normalization and context-aware damping.
- Separated pure domain logic from React presentation code and shipped with React 19, strict TypeScript, 97 tests, no backend, and fully local browser processing for privacy.

agent-engineering-rules - Engineering Rule System for LLM Coding Agents | *GitHub*

- Built and published Agent Engineering Rules (@aaarslan/aer), a zero-dependency Node.js 24+ CLI that installs project-local engineering rules for Claude Code and OpenAI Codex, with deterministic distribution builds and packed-install lifecycle validation on Linux and Windows.

PixelParity - Precision Display Metrics Chrome Extension | *Chrome Web Store · GitHub*

- Published a privacy-first Manifest V3 extension built with TypeScript and Preact, with zero telemetry, four minimal permissions, reproducible sub-150KB builds, and CI covering unit, accessibility, and packaged-extension E2E tests across Linux, macOS, and Windows.

CERTIFICATIONS & APPLIED AI TRAINING

- Anthropic Academy - 18 certificates of completion (2026): Claude with the Anthropic API; Claude with Amazon Bedrock; Claude with Google Vertex AI; Model Context Protocol, Introduction and Advanced Topics; Claude Code 101 and Claude Code in Action; Introduction to Subagents; Introduction to Agent Skills; AI Fluency foundations, capabilities, limitations, and applied tracks.
- AWS Certified Cloud Practitioner (Nov 2023)
- Google Project Management Certificate (Jul 2021)

EDUCATION

Georgia Gwinnett College - Bachelor of Business Administration, International Business *2017*

- President's List · Dean's List · Sigma Beta Delta · Sigma Iota Rho