

JUAN BOYCE

Fort Mill, SC

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Senior / Lead Software Engineer • Staff-Level IC • Full-Stack & Platform Architect

Vision-driven engineering leader with 20+ years of web development experience and a decade shaping software architecture, frameworks, and modernization strategies across enterprise and startup environments. Adept at defining systems that enable others to build—connecting technical decisions to business impact. Equally comfortable owning delivery, mentoring engineers, and operating inside fast-moving Agile teams.

HIGHLIGHTS

- **Executive Leadership:** Defined technical strategy and architecture frameworks that guided engineering direction, aligned execution with business goals, and enabled teams to deliver scalable solutions.
- **Product Scalability:** Led development of a modular human resources (HR) platform at iSolved using micro front-end architecture, reducing the user effort by 33% and cutting the number of support tickets by 50%.
- **Software Architecture:** Built and deployed an AI-powered SaaS platform from a no-code prototype, enabling real-time streaming and technical demonstrations for clients that secured funding and accelerated adoption.

CORE COMPETENCIES

Senior Leadership • Architectural Foresight • Agile Development • Technical Leadership • Scalable System Design • API Development & Integration • Cloud Architecture (AWS, Azure) • Front-End Engineering (React, Angular, TypeScript) • Back-End Development (Node.js, .NET Core, Python) • CI/CD Automation • Code Review & Mentorship • Performance Optimization • Remote & Asynchronous Collaboration • Artificial Intelligence

EXPERIENCE

Global Payments (Xenial, now Genius)

Charlotte, NC

Senior Software Engineer

2025 – Present

Supported POS device integration work, impacting 51,000+ restaurant installations across Xenial's global base.

- Investigated production issues via AWS (Elasticsearch and Kibana) and deployed custom Android builds for rapid issue validation; resolved 2–3 development Jira tickets weekly from scoping through final disposition
- Automated the team's transition from Protractor to Playwright for modernized test coverage and reliability
- Collaborated with QA and product teams in Agile sprints to deliver secure, maintainable features

My CRE Buddy

Remote

Senior Software Engineer / AI Engineer (Founding)

2025 – Present

Founding AI Engineer for an EdTech startup developing AI-powered lesson planning capabilities for educators.

- Transformed a no-code prototype into a fully functional AI-powered SaaS platform for the startup's Founder
- Led end-to-end architecture, UX re-design implementation, and deployment strategy in a fast-paced startup, leveraging AI-assisted pair programming for rapid prototyping; full software lifecycle development
- Architected a Python (Flask) + MySQL backend with secure API integration and real-time streaming for multi-session persistence; delivered client demos that supported new contracts and investor funding

iSolved

Remote

Senior Software Engineer

2020 – 2024

Developed saleable, user-centric applications for a cloud-based human capital management tech company.

- Delivered a key human resources (HR) servicing application built on Azure Service Bus and microservices, reducing user effort by 33%, while minimizing support overhead costs
- Developed micro front-end applications using Node.js, Angular 14, and .NET Web API to enable scalability

- Created extendable charting systems for HR reporting, reducing future development costs and enabling seamless data integration
- Collaborated with offshore vendors to maintain code quality and enforce development standards

Microsoft
Software Design Engineer III

Charlotte, NC
2019 – 2020

Managed and resolved 2–3 tickets per week: issues, feature enhancements, and new development requests.

- Introduced automated testing and documentation pipelines to strengthen long-term code sustainability
- Enhanced chatbot functionality using Azure Cognitive Services, enabling multilingual and globally accessible customer experiences
- Refactored backend C# and .NET systems to improve maintainability, stability, and developer efficiency across teams; modernized backend C# applications

Mark 43
Senior Software Engineer

Charlotte, NC
2018 – 2019

Developed real-time communication tools for Mark 43, a cloud-based public safety software company.

- Resolved open tickets, addressed production issues, and made updates to improve stability and UX
- Delivered real-time communication and chat features using React, Redux, TypeScript, and Node.js
- Enhanced first responder software performance through containerization with Docker and Electron

Bank of America
Application Developer V (Senior Software Engineer)

Charlotte, NC
2016 – 2018 & 2024

Supported enterprise software focusing on automation, CI/CD optimization, and secure access management.

- Built and maintained internal CI/CD pipelines to improve deployment efficiency and code reliability
- Handled technical and enhancement tickets, ensuring the delivery of new features, patches, and fixes
- Engineered automated version-tracking systems, increasing reliability from 0% to 100% and reducing file size by 99%, significantly enhancing DevOps performance
- Designed and implemented a permissions management tool with bulk access features, streamlining administrative workflows and improving governance

ADDITIONAL EXPERIENCE

TVGLA & The HQ	Web Front-End Developer	2016
Square One Solutions / Optimity Advisors	Senior UI Developer	2015 – 2016

TECHNICAL SKILLS

Languages: Java, C#, Python, TypeScript, JavaScript (ES6+), SQL, HTML5, CSS3/SASS
Cloud & DevOps: Amazon Web Services (AWS), Azure, Jenkins, Docker, Git, CI/CD Pipelines
Frameworks: React, Angular, Node.js, .NET Core, Flask, Redux, Knockout.js
Tools: Visual Studio, VS Code, SourceTree, Jira, Elasticsearch, Kibana
Databases: MySQL, SQL Server, NoSQL

CERTIFICATIONS

PeopleCert	ITIL Foundation 4 Certification (IT Service Management)	October 2025
Linux Professional Institute	Linux Essentials Certification (LPI)	September 2025

EDUCATION

B.S., Computer Science	Western Governors University	2025
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