

# Duane Horton *Senior Full Stack & AI Engineer*

✉ duanehorton.jobstar213@gmail.com

📍 Quincy, IL, US

🔗 Portfolio

.linkedin

github

## Senior Full Stack & AI Engineer

I'm a Senior Full Stack & AI Engineer with 10+ years of experience building scalable web applications, designing robust backend systems, and delivering intuitive frontend interfaces. I specialize in technologies like Python, Node.js, C#, .NET Core, PHP, React.js, Angular, Vue.js, Laravel, CMS and more. I also have strong DevOps and AWS cloud experience. I have extensive experience developing mobile applications (Swift, Kotlin Java, Objective-C, Flutter, React Native | Android & IOS).

## Professional Experience

### Senior Software Developer | Full Stack & AI Development

Horizon AI & Cloud Services

11/2023 – 12/2025

Houston, Texas, United

States

- Lead full-stack development for enterprise platforms, focusing on AI features, scalable backends, and responsive frontends, improving overall system efficiency by 30%
- Built the frontend with React/Next.js and backend with Node.js, integrating AI-powered recommendations that reduced search time by 40% on a travel platform.
- Developed AI-assisted learning modules using LLMs and vector search for personalized content and adaptive assessments, increasing user engagement by 35% on education and finance platforms.
- Built a real-time mobile order backend using Node.js and PostgreSQL, boosting delivery efficiency by 25% and reducing order processing errors by 15%, while ensuring smooth integration Android and iOS apps.
- Implemented AI-SaaS features including RAG pipelines and automated workflows, cutting manual operational tasks by 50% across multiple client projects.
- Optimized SQL/NoSQL databases and cloud infrastructure, improving application response times by 40% and ensuring mobile-ready reliability.
- Mentored junior engineers and collaborated with teams, contributing to a 20% faster delivery rate for production-ready code.

Tech Focus: Python, Node.js, React, Nextjs, FastAPI, Express.js, LLMS, RAG Pipelines, DevOps, Vector Databases, AWS, Docker, Android & Mobile (Swift, Kotlin Java, Objective-C, Flutter, React Native)

### Senior .NET, C# Developer Backend & Cloud Specialist

Tesla

03/2020 – 10/2023

Fremont, California,

United States Remote

- Focused on backend and cloud systems for enterprise applications, making them scalable, secure, and 35% reliable
- Audited Enterprise Gold: Customized and deployed a distributed ASP.NET/Oracle platform for Latin American markets, improving operational efficiency by 40% and system uptime by 30%.

- Built finance and operations modules, ensuring 100% data integrity and compliance with regional regulations.
- Enhanced MySQL Connector/.NET, adding features, fixing bugs, and performing cross-version testing across multiple .NET Framework versions, reducing critical errors by 25%.
- Optimized system performance through cloud and distributed system improvements, cutting processing time by 30% and supporting high-traffic enterprise workloads
- Mentored and guided team members on backend architecture and .NET best practices, increasing team delivery speed by 20%.

Tech Focus: Focus: C, .NET, ASP.NET, Oracle, VB.NET, .NET Core / .NET Framework, RESTful API development, Vista DB, MySQL, Cloud Services, Distributed Systems, Azure, Docker

### **Senior Backend Engineer | Python & Node Backend Development**

*StarTechPC.com*

03/2017 – 11/2019

Austin, Texas, United

States

- Built scalable backend systems using Python, Node.js, Express, and microservices for multiple enterprise applications, increasing system reliability by 35% and supporting 30% higher traffic loads.
- Developed AI-driven features including NLP chatbots, recommendation engines, and classification models, boosting automation by 40% and enhancing user engagement by 25%
- Integrated backend services with React, Vue.js, and Angular frontends for full-stack applications, achieving 20% faster load times and smoother user experience.
- Automated data pipelines and ML workflows, reducing manual work by 50% and improving processing speed by 30%.
- Led multiple projects from design to deployment, collaborating with cross-functional teams and cutting delivery time by 25% while maintaining high-quality code.

Tech Focus: Python, Node.js Express, NLP, Machine Learning, Microservices, React, Vue.js, Angular, PHP

### **Full-Stack Developer**

*Raycom*

01/2014 – 12/2016

Oklahoma City,

Oklahoma, United States

(Remote)

- Built client-facing and internal applications using C#/.NET, Java, JavaScript, Node.js, and MongoDB, improving system reliability by 30% and supporting 25% more concurrent users.
- Created responsive frontends with Angular and Nuxt.js, enhancing UX and performance for web and mobile, reducing page load times by 20%
- Developed custom WordPress and Shopify components for E-Commerce projects, improving modularity and performance, cutting deployment time by 35%
- Built interactive dashboards and reporting tools, streamlining HR and payroll workflows and reducing manual reporting effort by 50%.
- Owned projects end-to-end, collaborating with cross-functional teams to deliver high-quality software 20% faster than projected timelines.

Tech Focus: C#/.NET, Java, JavaScript, Node.js, MongoDB, Angular, Nuxt.js, Word Press, Shopify, Webflow

## **Education**

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**Bachelor's degree, Computer Science***University of Houston-Clear Lake*

04/2006 – 05/2010

Houston, Texas, US

**Master's degree, Computer Science***University of Houston-Clear Lake*

08/2010 – 03/2013

Houston, Texas, US

## **Skills**

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- React.js
- Angular
- Nuxtjs
- Material UI
- TypeScript
- FlutterFlow
- Swift
- AI Chatbot
- LangChain
- RAG pipelines
- PyTorch
- OpenAI API
- Nestjs
- Django
- C#
- Golang
- MySQL
- Oracle
- Cloud Services
- DevOps
- Automated Workflows
- N8N
- Vue.js
- Next.js
- Tailwind CSS
- JavaScript
- Flutter
- React Native
- Kotlin
- Python
- LLMS
- Machine Learning
- TensorFlow
- Node.js
- FastAPI
- .NET
- PHP
- MongoDB
- PostgreSQL
- AWS
- Docker
- Git
- Zaiper
- Make

## **Portfolio**

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- porfolio-1-tau.vercel.app ↗

## **Github**

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<https://github.com/DuaneH-www>

## **Linkedin**

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<http://www.linkedin.com/in/duane-horton-8ab528234>

## **Languages**

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- English