Carlos Sandoval

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SUMMARY

Senior Full Stack Developer with 9+ years of experience designing, developing, and deploying scalable web applications using Python, Java, Spring, React, Node.js, and Vue.js. Expert in AI/ML/ DL integration, cloud-based solutions, API development, and performance optimization. Proven track record of delivering high-quality software, mentoring teams, and implementing DevOps practices (Docker, AWS, CI/ CD). Successfully improved system performance by up to 40% and led projects impacting 500,000+ users. Passionate about leveraging cutting-edge technologies to solve complex problems and build innovative solutions.

EXPERIENCE

Lead Software Engineer

Tech Solutions Inc.   **January 2021 - Present, Monroe, LA**

· Architected and developed scalable full-stack systems using Python (FastAPI, Django) and Java (Spring Boot) serving over 500,000+ monthly users.
· Built enterprise-grade React, Next.js, Vue.js applications with 30% faster load times and improved user engagement by 25%.
· Implemented AI/ML/DL pipelines for predictive analytics and automation, increasing operational efficiency by 40%.
· Designed microservices and high-performance REST/GraphQL APIs, reducing latency by 35%.
· Led DevOps initiatives using Docker, AWS, CI/CD, achieving zero-downtime deployments across 12+ production environments.

Senior Software Engineer

Innovatech Labs   **June 2017 - December 2020, Monroe, LA**

· Developed full-stack applications using Java (Spring) and Python (Flask, Django) impacting over 200,000 users.
· Built reusable UI components using React, Vue.js, Tailwind CSS, increasing frontend development speed by 35%.
· Integrated AI/ML models and external APIs (OpenAI, ERP/CRM systems), automating workflows that saved ~500 hours annually.
· Implemented authentication systems (JWT/OAuth2) and enhanced security practices, reducing vulnerabilities by 50%.

Software Engineer

NextGen Software   **May 2016 - June 2017, Monroe, LA**

· Built backend services using Python and Java, supporting scalable business applications for 50,000+ users.
· Designed REST APIs and integrated databases (PostgreSQL, MySQL, MongoDB) with optimized queries, reducing query time by 25%.
· Developed frontend components using React and Vue.js, improving project delivery timelines by 20%.
· Created internal automation scripts reducing manual workload by 50%.

Junior Software Engineer

BrightCode Digital   **March 2015 - May 2016, Monroe, LA**

· Assisted in developing and testing full-stack applications using Python, Java, Node.js, contributing to 10+ production projects.
· Built frontend components with React and styled with Tailwind CSS, improving UI consistency by 30%.
· Supported database operations and created optimized SQL queries, increasing query efficiency by 20%.
· Contributed to early-stage AI/ML prototypes and automation scripts, accelerating proof-of-concept completion by 40%.

PROJECT

Full-Stack E-Commerce Application

· Developed a full-stack e-commerce platform using React, Node.js, and PostgreSQL serving 20,000+ active users.
· Integrated an AI-based recommendation system, increasing sales conversion by 15%.
· Optimized database queries and caching, reducing page load times by 25%.
· Implemented REST APIs and secure authentication with JWT.

Hackathon Winner

· Created a chatbot using OpenAI API that automated customer support, reducing response time by 50%.
· Led a 3-person team to deliver a functional prototype within 24 hours.
· Implemented sentiment analysis and machine learning response ranking for higher accuracy.

AI-Powered Predictive Analytics Platform

· Built a Python & TensorFlow platform to forecast business trends with 30% higher accuracy.
· Integrated multiple data sources and cleaned 10+ million rows of data for machine learning models, improving model accuracy by 30%.
· Developed APIs for 5 internal teams to access predictive insights, reducing decision-making time by 40%.
· Automated reporting dashboards to visualize predictions for 50+ stakeholders, increasing data-driven decision adoption by 25%.

EDUCATION

Bachelor of Science (B.Sc.) in Computer Science

Minor in Mathematics · University of Louisiana at Monroe · Monroe, LA · 2015 · 3.7

· Completed coursework in software development, AI/ML/ DL, algorithms, data structures, and databases.

· Developed projects using Python, Java, Spring, Django, Flask, React, Node.js impacting 50+ classmates in collaborative projects.

· Hands-on experience with REST APIs, cloud services (AWS), and scalable architectures.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

Amazon Web Services (AWS)

· Validates cloud architecture skills, relevant for designing scalable backend and full-stack applications.

TensorFlow Developer Certificate

TensorFlow / Google

· Demonstrates proficiency in machine learning and deep learning model development, directly applicable to AI-powered projects.

Oracle Certified Professional, Java SE 11 Developer

Oracle

· Confirms expertise in Java programming and Spring-based backend development for enterprise applications.

INVOLVEMENT

Project Lead

University of Louisiana at Monroe · Programming Club · August 2012 – May 2015

· Led a 4-person team to develop web applications for campus events, improving event attendance by 25%.

· Organized weekly coding sessions attended by 30+ students, increasing engagement by 50%.

· Implemented mentorship program connecting experienced members with beginners, improving retention rate by 20%.

AWARDS & HONORS

Hackathon Champion

University of Louisiana at Monroe · 2014

· Recognized for innovative AI-based project, demonstrating leadership, problem-solving, and technical skills relevant to software development.

Dean's List

University of Louisiana at Monroe · 2015

· Awarded for academic excellence in computer science, validating proficiency in programming, algorithms, and software engineering principles.

SKILLS

Skills 1: Python (Django, Flask, FastAPI), Java (Spring Boot), Node.js, React, Next.js, Vue.js, Laravel

Skills 2: MySQL, PostgreSQL, MongoDB, Redis

Skills 3: TensorFlow, OpenAI API, Predictive Modeling, Deep Learning

Skills 4: REST, GraphQL, Web Automation, Scalable Architecture

Skills 5: Docker, AWS, CI/CD, GitHub Actions, Git, Cloud Computing

Skills 6: Django, Flask, FastAPI, MySQL, PostgreSQL, MongoDB, REST APIs, AI/ML/DL