CARTER RODRIGUEZ

Senior Software Engineer | Java Expert | Systems Architecture

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📍 Washington, D.C.

SUMMARY

With over a decade of experience in software engineering, I possess expert knowledge of Java, system architecture, and real-time analytics. My career is marked by successful design and deployment of high scalability systems, improving performance and user engagement significantly.

EXPERIENCE

Principal Software Engineer

Tech Innovate Solutions

📅 01/2016 - 12/2022   📍 Washington, D.C.

- Spearheaded the design and architecture of a high-throughput, real-time analytics platform, processing over 150 million events per day, leading to a 30% increase in customer engagement.
- Pioneered the integration of a new NoSQL database, improving data retrieval speed by 50% which accelerated feature rollout and consumer responsiveness.
- Orchestrated a cross-functional team of 15 engineers responsible for a seamless migration of legacy systems to a cloud-based infrastructure, cutting operational costs by 20% and enhancing scalability.
- Mentored junior software engineers, ensuing a 25% team productivity boost through adoption of best practices in code quality and automated testing procedures.
- Authored and maintained over 300,000 lines of Java code, resulting in a robust and maintainable software base that served as the foundation for critical business applications.
- Initiated an internal code review culture that reduced software downtime by 40% and fostered a collaborative and knowledge-sharing work environment.

Senior Java Developer

Global Digital Media

📅 06/2011 - 12/2015   📍 Arlington, VA

- Developed and deployed streaming media applications for a customer base of over 10 million, increasing user retention by 25%.
- Successfully reduced system load time by 30% by optimizing backend Java application performance.
- Led a team that delivered three major product releases each year which captured an additional 15% market share annually.
- Authored a custom caching mechanism that reduced data access latency by 70%, significantly improving user experience.
- Conducted comprehensive benchmarks and refactored Java codebase, resulting in a 60% improvement in application throughput.

Java Software Engineer

Enterprise Software Inc.

📅 02/2008 - 05/2011   📍 Washington, D.C.

- Integrated complex database solutions into client software, boosting query performance by 100%.
- Played a crucial role in developing an e-commerce platform that handled transactions worth $5M annually.
- Created automated unit tests which decreased bug occurrence by 35% and minimized post-release patches.
- Collaborated with UX designers to refine application interfaces, enhancing customer satisfaction scores by 20%.

EDUCATION

Master of Science in Computer Science

Johns Hopkins University

📅 01/2005 - 01/2007   📍 Baltimore, MD

PROJECTS

Interactive Data Visualization Tool

Contributed to an open-source project aimed at simplifying big data analysis through intuitive interfaces. github.com/interactive-data-visualization

Real-Time Messaging Protocol Library

Developed a lightweight Java library to enable efficient messaging for real-time applications. github.com/real-time-messaging-protocol

KEY ACHIEVEMENTS

💙 **Led Migration to Cloud Infrastructure**

Directed the transition of legacy systems to the cloud, reducing infrastructural costs by 20% and enhancing system resilience.

⚡ **Keynote Speaker at JavaCon**

Presented on 'High-Performance Java Systems' to a crowd of 500+, sharing insights on scalability and efficiency.

🧠 **Recipient of Tech Innovate Excellence Award**

Acknowledged for exceptional contributions to system architecture, improving performance and reducing downtime.

✔️ **Championed Automated Testing Culture**

Initiated an automated testing strategy that led to a 35% reduction in software defects and improved release cycles.

SKILLS

Java   Systems Architecture

Object-Oriented Programming

Automated Testing   AWS   NoSQL

EDUCATION

Bachelor of Science in Software Engineering

Virginia Tech

📅 01/2001 - 01/2005   📍 Blacksburg, VA

LANGUAGES

English
Native
●●●●●

Spanish
Proficient
●●●●○

EDUCATION

Bachelor of Science in Software Engineering

Virginia Tech

📅 01/2001 - 01/2005   📍 Blacksburg, VA

LANGUAGES