Carter Rodriguez
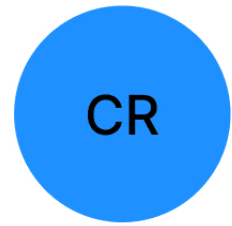
Senior Backend Software Engineer | Python, C++

@ help@enhancv.com 🔗 linkedin.com
📍 San Antonio, Texas

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SUMMARY

Senior Backend Software Engineer with 8 years of experience designing and developing high-performance backend systems in Python and C++. Proven track record in optimizing core systems resulting in improved performance, reliability, and efficiency. Skilled in AWS services, SQL and NoSQL databases, CI/CD pipelines, and infrastructure provisioning. Completed a Master of Science in Computer Science from the University of Texas at Austin. Passionate about leveraging technology to save lives through innovative medical solutions. Excited to contribute my expertise to your mission of preventing patient death with proprietary hardware, software, and algorithms.

EXPERIENCE

Senior Backend Software Engineer

MedTech Innovations

📅 2019 - 2023   📍 San Antonio, Texas

Developed and maintained high-performance backend systems with Python and C++. Ensured continuous availability of APIs fetching billions of patient data points. Collaborated with U.S. and U.K. teams to create functional table structures for a 5TB medical data software.

- Optimized core backend systems resulting in 50% improvement in performance and reliability.
- Implemented CI/CD pipelines using Github Actions and Jenkins, ensuring seamless delivery of software updates.
- Integrated Amazon AWS services and managed databases (Postgres, TimescaleDB, MongoDB) for efficient data retrieval and storage.
- Utilized Terraform for infrastructure provisioning on AWS, improving scalability and maintainability.

Backend Software Engineer

HealthTech Solutions

📅 2017 - 2019   📍 Austin, Texas

Developed APIs and backend systems for a healthcare management software provider. Collaborated with LTPAC providers to ensure accurate patient information.

- Implemented API functionalities resulting in improved data accuracy and real-time updates.
- Collaborated with cross-functional teams to resolve system issues, reducing incident response time by 30%.
- Improved service availability by implementing fault-tolerant architecture patterns.

STRENGTHS

🎖 **Problem Solving**

Resolved critical system issues resulting in improved uptime by 20%.

💙 **Collaboration**

Collaborated with cross-functional teams to deliver high-quality software projects on time.

⚡ **Attention to Detail**

Implemented rigorous testing procedures resulting in 30% reduction in bug incidents.

SKILLS

PythonC++Amazon AWS ServicesSQL MySQLPostgreSQLNoSQL databases Atlassian JIRAConfluenceTDDCI/CDGitLinux

PROJECTS

Medical Data Visualization

Developed a web-based application for visualizing complex medical data structures using D3.js. (Example: github.com/project)

Automated Test Framework

Built an automated test framework using Python and Selenium WebDriver to enhance the testing process. (Example: github.com/project)

CERTIFICATION

Advanced Data Structures and Algorithms
Completed an online course by Coursera.

Distributed Systems Design
Completed a certification course by Udemy.

PASSIONS

💙 **Healthcare Technology**

Passionate about leveraging technology to improve healthcare outcomes and patient experiences.

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