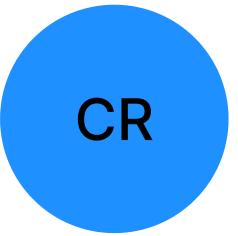


# Carter Rodriguez

Senior Backend Software Engineer | Python, C++

@ Email [linkedin.com](#) San Antonio, Texas



## 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.

### Software Engineer

#### TechCorp

2015 - 2017 San Antonio, Texas

Contributed to the development and maintenance of software products using Python and C++.

- Implemented new features resulting in enhanced user experience and increased customer satisfaction.
- Performed code reviews and provided constructive feedback to improve code quality.
- Collaborated with the QA team to identify and fix software defects.

## 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

Python C++

Amazon AWS Services SQL

MySQL PostgreSQL

NoSQL databases Atlassian JIRA

Confluence TDD CI/CD Git

Linux

## 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](#))

## EDUCATION

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**Master of Science in Computer Science**

**University of Texas at Austin**

📅 2013 - 2015   📍 Austin, Texas

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**Bachelor of Engineering in Software Engineering**

**Texas A&M University**

📅 2009 - 2013   📍 College Station, Texas