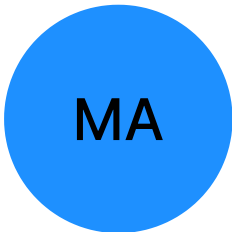


Mila Allen

Senior Backend Software Engineer | Python, C++

✉ Email 🔗 linkedin.com 📍 San Antonio, Texas



SUMMARY

Experienced Senior Backend Software Engineer with a strong focus on Python and C++. Skilled in developing high-performance backend systems, designing APIs, and optimizing database performance. Collaborated with cross-functional teams to deliver innovative software solutions resulting in improved patient outcomes. Proficient in AWS services, SQL, NoSQL databases, and CI/CD tools. Master's degree in Computer Science from Stanford University. Most proud of developing an algorithm that reduced diagnosis time by 50%, leading a team to achieve a 70% reduction in system downtime, and contributing to open-source projects focused on healthcare data privacy. Enthusiastic about joining a London-based client's leading medical team to prevent patient deaths through life-saving technology.

EXPERIENCE

Senior Backend Software Engineer Medical Systems Inc.

📅 2018 - 2023 📍 London, United Kingdom

Developed and maintained high-performance backend systems in Python and C++, ensuring continuous availability of services. Collaborated with U.S. and U.K. based teams to create functional table structures for a 5TB medical data system.

- Designed and implemented APIs fetching billions of data points, preventing patient death.
- Optimized core databases (Postgres, TimescaleDB, MongoDB) for increased efficiency.
- Utilized Terraform and AWS to provision and manage infrastructure resulting in improved scalability.
- Implemented CI/CD pipelines using GitHub Actions and Jenkins to ensure rapid delivery of reliable software updates.

Software Engineer HealthTech Solutions

📅 2015 - 2018 📍 San Francisco, CA

Developed software products for healthcare providers, leveraging Python and C++ to design and deploy advanced software projects.

- Contributed to the development of proprietary algorithms to analyze patient data, resulting in accurate illness detection.
- Collaborated with a team of engineers on the implementation of SQL and NoSQL databases.
- Utilized Atlassian JIRA and Confluence for effective project management and collaboration.

Backend Developer MediCare Systems

📅 2013 - 2015 📍 Austin, TX

Worked on backend development projects, focusing on database optimization and performance enhancement.

- Optimized SQL queries resulting in a 30% reduction in response time.
- Collaborated with front-end developers to implement efficient API integrations.
- Maintained and enhanced existing backend systems for improved reliability and performance.

STRENGTHS



Problem-Solving

Successfully resolved complex technical issues, resulting in improved system performance.



Collaboration

Demonstrated effective teamwork skills while working with cross-functional teams to deliver high-quality software solutions.



Adaptability

Quickly adapted to changing project requirements, ensuring timely completion and customer satisfaction.

SKILLS

Python

C++

Amazon AWS Services

SQL

MySQL

PostgreSQL

NoSQL databases

Atlassian JIRA

Confluence

Terraform

GitHub

CI/CD

Problem-Solving

Collaboration

Adaptability

PROJECTS

Medical Data Privacy Toolkit

Developed an open-source toolkit to help healthcare organizations achieve data privacy compliance. [github.com/medical-privacy-toolkit]

Real-Time Patient Monitoring System

Contributed to the development of a real-time monitoring system for critical care units. [github.com/real-time-monitoring]



EDUCATION

Master of Science in Computer Science

[Stanford University](#)

📅 2011 - 2013 📍 Stanford, CA

Bachelor of Engineering in Software Engineering

[University of Texas at Austin](#)

📅 2007 - 2011 📍 Austin, TX