Nathan Adcock
Software Engineer
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nathan.adcock43@gmail.com
210 410-5789
San Antonio, TX, USA

Professional Summary

As a Fullstack Software Engineer with over four years of experience in backend, frontend, and infrastructure development—and a foundation of 12 years in leadership roles within the nonprofit sector—I strive not just to complete tasks but to consistently elevate my team and enhance the systems around me.

I bring expertise in software engineering, data architecture, and digital experience. My background includes designing scalable solutions, leveraging design patterns, and enhancing production support workflows to ensure high system availability. I have a strong foundation in computer science, including data structures and algorithms.

I am always curious and excited to understand new things, which, by extension, means I have tended to wear many hats in my roles. I prioritize knowledge sharing, mentorship, and collaboration to strengthen my teams and build sustainable, high-quality software. My passion for learning and growth mindset drives me to take on extra responsibilities and continuously improve.

Technical Skills

- **Programming Languages**: Java, Python, JavaScript, TypeScript, SQL
- **Frameworks & Tools**: Spring Boot, Spark, Scala, Node.js, Helm, Terraform, Apache Kafka, Angular, React.js, Vue, Elasticsearch, Databricks, SNS, Jenkins,
- **DevOps Tools**: Terraform, Helm, Jenkins, CI/CD Tools
- **Cloud Technologies**: AWS Services (EC2, S3, RDS, Lambda, Auto Scaling, SNS), Docker, Kubernetes, Keda, GCP, Openshift
- **Data Engineering Tools:** Databricks, ETL, Data Warehousing
- **Databases/ Caching**: PostgreSQL, Oracle, MySQL, Redshift, DynamoDB, Redis, Azure
- **Machine Learning & NLP**: Natural Language Processing, Retrieval-Augmented Generation (RAG), Hugging Face, Big Data Analytics, PyTorch
- **Engineering Principles**: Source Code Management (Git), Agile Methodology (Kanban, Scrum), Object-Oriented Programming (OOP), DevOps Methodology, Debugging, Test-Driven Development (TDD), RESTful Web Services, Distributed Systems
- **Other Skills:** Accountability, Priority Setting, Communication Skills, Problem-Solving Skills, Collaboration, Sprint Planning, Organizational Skills, Secure Data Handling, Data Quality, Test Automation, ETL, Risk Assessment, Service Continuity, Capacity Planning, Quality Assurance (QA), Mentorship, Resilience, Issue Resolution, Growth Mindset, Creative Thinking
- **SaaS Products:** Jira, Confluence, Bitbucket, Postman, SonarCloud, DataDog, GitKraken, Github, GitLabs

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Professional Experience

CaptureRx – Software Developer Level 3

San Antonio, TX | June 2023 – Present

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- Automated secure data handling processes by creating a data masking tool for PHI in test environments, enabling efficient load testing and ensuring compliance.
- Reduced disaster recovery time by 25% through an automation utility for file retrieval, decryption, and preparation, aligning with SRE best practices.
- Proposed and implemented serverless system architecture changes, achieving significant cost savings and scalability improvements.
- Developed a Proof of Concept (POC) for an internal LLM using Hugging Face to enhance institutional knowledge access and workflow automation.
- Built CI/CD pipelines with TeamCity and Bitbucket, streamlining deployments and improving delivery speed for technical projects.
- Mentored junior developers and fostered a collaborative team environment with a focus on knowledge sharing and mentorship.
- Collaborated with cross-functional agile teams to design and implement scalable microservices architecture, integrating APIs and downstream systems seamlessly.

CaptureRx – Software Developer Level 2

San Antonio, TX | August 2022 – June 2023

- Designed a Cumulus Application System Map using the C4 model and Ice-Panel, enhancing architecture understanding and risk assessment.
- Automated system updates with Python scripts, improving capacity planning and system reliability.
- Built scalable data engineering pipelines and REST APIs to optimize API integrations and for data-driven decision-making.
- Developed integrations for telehealth services and complex billing solutions.

CaptureRx – Software Developer Level 1

San Antonio, TX | August 2021 – August 2022

- Supported 340B transactions by maintaining and enhancing the flagship application with optimized backend features and scalable solutions.
- Identified and resolved technical challenges using test-driven approaches, improving reliability and quality in digital experience applications.
- Integrated data warehousing solutions to enhance storage and retrieval for complex billing tickets.

Additional Professional Experience

Program Director
AugustHeart – San Antonio, TX | Dec 2019 – May 2020

- Coordinated heart screenings for teens, overseeing logistics, compliance, and data security.

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- Directed technicians and managed outreach initiatives to increase community awareness.

Residential Coordinator
Advantage Care Services – San Antonio, TX | May 2017 – Nov 2019

- Managed new facility construction, ensuring compliance with regulatory standards.
- Supervised employees and provided team training to maintain service quality.

Program Services and Activities Manager
Providence Place – San Antonio, TX | Nov 2011 – Apr 2017

- Directed 13 staff members, ensuring compliance and quality care in a residential setting.
- Organized activities and provided training to foster personal development for clients.

Technical Projects

Data Masking Tool for Secure Testing (Aug 2024 – Oct 2024)

- Automated secure data handling processes to manage sensitive information in test environments efficiently.
- Streamlined PHI retrieval and transfer, reducing masking time by 75% and enabling effective load testing.
- **Key Skills:** Java, Spring Boot, AWS S3, Secure FTP, REST API

AWS EKS Migration (Jul 2023 – Oct 2023)

- **Mi**grated infrastructure to AWS EKS, improving scalability and operational flexibility for retail cloud solutions.
- Implemented Terraform and automated CI/CD workflows for reliable container orchestration.
- **Key Skills:** AWS EKS, Openshift, Terraform, distributed computing

Disaster Recovery Utility (Jun 2023 – Sep 2023)

- Developed an automation tool for file retrieval, decryption, and preparation, reducing recovery time by 25%.
- Improved system reliability through workflow optimization and encryption techniques.
- **Key Skills:** Java, Spring Boot, Encryption, Workflow Optimization

Proof of Concept (POC) for an Internal AI/ML System (Apr 2023 – Jun 2023)

- Designed and deployed a locally hosted LLM using Hugging Face, enhancing institutional knowledge access.
- Processed structured JSON data to provide detailed insights into architecture and dependencies.

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- Leveraged RAG techniques to optimize LLM responses for data analytics and internal workflows.
- Proposed scalable solutions for seamless data flow and large-scale processing.
- **Key Skills**: Hugging Face, Python, LLM Deployment, Workflow Automation, Knowledge

Cumulus Application System Map (Jun 2022 – Nov 2022)

- Developed a system map using the C4 model and Ice-Panel, simplifying architecture understanding for troubleshooting and design.
- Automated updates with a series of Python scripts, reducing manual effort and ensuring accuracy.
- **Key Skills**: Python, C4 System Architecture, Automation

Education

- **Codeup** – Certification in Full-Stack Web Development | *San Antonio, TX* | *2021*
- **Austin College** – Bachelor of Science in Sociology; Bachelor of Arts in Religion | *Sherman, TX* | *2007*
- **Central Catholic High School** – *San Antonio*, TX | *2003*

Certifications and Professional Development

- **AWS Certified Developer – Associate** | *Nov 2024 – Nov 2027*
- Currently pursuing **AWS Certified Machine Learning Engineer** with a focus on Artificial Intelligence applications and reinforcement learning.

Volunteer Experience

Lone Star Play Ball – Board Member & Web Developer

San Antonio, TX | September 2013 – Present

- Supported a nonprofit league for adults with disabilities, fostering inclusion and community member engagement.
- Designed, built, and maintained the organization's website to improve outreach and communication.