Sean Ankenbruck

Senior Software Engineer

CONTACT

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ABOUT

Software Engineering professional specializing in enterprise-scale observability solutions and distributed system architecture. Expert in cloud-native technologies and Infrastructure as Code with deep experience in application development and platform design. Passionate about driving technical innovation through cross-functional collaboration, mentoring engineering teams, and establishing software development standards that enable data-driven decision making at scale.

EDUCATION

MS, Analytics
North Carolina State University, Institute of Advanced Analytics
Raleigh, NC

BS, Business Administration, magna cum laude
Minor in Spanish
North Carolina State University
Raleigh, NC

CERTIFICATIONS

AWS Certified DevOps Engineer - Professional
AWS Certified SysOps Administrator - Associate
AWS Certified Developer - Associate

TECHNICAL SKILLS

Cloud Computing
Distributed System Design, Observability Stack Architecture (metrics, logs, traces), Infrastructure as Code (Terraform/CloudFormation), Container Orchestration (Kubernetes/AKS/EKS), Service Mesh Implementation, APM and Distributed Tracing, Log Aggregation and Analysis, Alert Management and SLI/SLO Definition, Auto-scaling and Performance Optimization, Multi-tenant Platform Design, CI/CD Pipeline Integration, Security Monitoring and Compliance

Programming Languages
C#, Go, Python, JavaScript, TypeScript

Frameworks/Libraries
.NET, React, Node.js, Django, OpenTelemetry, Grafana

Databases
SQL Server, PostgreSQL, ClickHouse, Cosmos DB, DynamoDB

Tools/Platforms
Git, Docker, Pulumi, Terraform, Amazon Web Services, Microsoft Azure, Claude, ChatGPT

RELEVANT EXPERIENCE

CARIAD, Inc. | Senior Software Engineer
Remote
September 2024 - Present

- Architect and implement enterprise-scale observability solutions serving thousands of internal and partner developers in multiple regions across the globe, including production-grade Open Source tools with multitenancy design considerations and 24/7 global support coverage
- Lead full-stack development lifecycle management from strategic visioning and prototype development through production deployment, encompassing cross-functional collaboration, Agile methodologies, code reviews, testing, and comprehensive documentation of complex technology solutions
- Drive innovation and modernization initiatives by researching emerging technologies, integrating modern platform engineering ideas into prototypes and production systems, establishing observability standards and requirements, contributing to the open source community and mentoring team members
- Deliver technical leadership across diverse stakeholder groups by collaborating with business partners, architects, and multidisciplinary teams to identify functional requirements, conduct application design reviews, manage technology project lifecycles, and provide regular status reporting while ensuring timely issue resolution and risk escalation

CARIAD, Inc. | Senior Cloud Solution Engineer
Remote
August 2022 - September 2024

- Led the design and development of customer-facing applications and processes, providing technical solutions to optimize workflows and bridge operational gaps
- Built and deploy distributed software solutions, including microservices, APIs, and web applications, on the cloud using various technologies and programming languages
- Drove cloud-native software development utilizing automated infrastructure, secure and scalable architecture, containerization, CI/CD, and test-driven development
- Served as a technical leader by mentoring colleagues, creating comprehensive documentation, and effectively communicating complex technical concepts to foster a deeper understanding of our technology stack

Groundspeed Analytics | Senior Solutions Engineer
Remote
January 2022 - August 2022

- Partnered with cross-functional teams to build and continuously improve the overall product offering for our customers
- Designed and implemented solutions that allowed customers to interface directly with our products
- Managed relationships with customers by providing technical guidance to key project stakeholders
- Focused on the development of software using modern SDLC best practices

Zencos Consulting | Senior Solutions Architect
Raleigh, NC
May 2017 - December 2021

- Engineered solutions for customers, incorporating cloud infrastructure, data analytics tools, ETL processes, data visualizations, APIs, automated workflows, and web applications
- Configured and deployed enterprise and open-source software applications on Amazon Web Services and Microsoft Azure
- Worked with the internal cloud team to continuously improve our existing cloud infrastructure and implement cloud computing best practices
- Created and presented results of data analysis using static and interactive visualizations to aid executives in data-driven decision-making processes
- Engaged with customer, technical and business users to understand business needs, procure requirements and ensure alignment of project deliverables with customer expectations