

# Sean Amoroso

Accomplished full-stack engineer with a strong background in C#, JavaScript, and Go, specializing in developing scalable web applications and dynamic system evaluations. Known for leading product innovations and optimizing performance, I excel in implementing cutting-edge technologies and efficient processes. My leadership extends to pioneering cross-functional teams and promoting best practices that enhance product quality and team capabilities. Committed to driving growth through strategic development and fostering talent, I am adept at transforming technical challenges into impactful enterprise solutions.

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## Senior Platform Engineer

[1/ST Technology](#), Jan 2023 - Present

*C#, Typescript, Javascript, NodeJS, Go, Postgres, Kafka, Docker, Helm, Kubernetes, Google Cloud*

- **Architectural Contributions:** Played a key role in designing the overall architecture and cross-cutting features of our products.
- **Zero-Trust Architecture for Kafka:** Designed and implemented cryptographic solutions for secure message signing and verification.
- **Node20 Upgrade:** Led the upgrade of the monorepo to Node20, managing package updates and resolving breaking changes across the product.
- **Prism Optimization:** Ensured 100% deployment accuracy, analyzed resource usage, reduced costs, and improved performance.
- **Protobuf Plugin Development:** Created a plugin to selectively filter proto files, enhancing documentation accessibility for diverse audiences.
- **Critical Issue Resolution:** Addressed integration test deadlocks, concurrency issues, and major deployment bugs, significantly improving system reliability.
- **Enhanced Authentication:** Improved authentication services, resolved JWT integration issues, and standardized exception handling and security policies.

## Staff Software Engineer

[Edge Case Research](#), Apr 2022 - Jan 2023

*Go, Postgres, Vue, Kafka, Docker, Kubernetes, Helm, Google Cloud*

## Senior Software Engineer (Team Lead)

[Edge Case Research](#), Apr 2021 - Present

- **Developed Computation Engine:** Designed and implemented a computation engine using Google's Common Expression Language to dynamically evaluate autonomous system safety.
- **Enhanced Frontend Architecture:** Created and integrated new views, components, and Vue.js store functionalities to enhance user interface interactions.
- **Led Platform Guild:** Initiated and led a cross-functional team to establish best practices and propose enhancements across applications.
- **Optimized Service Performance:** Drastically reduced the runtime of a dynamic evaluator service from 9 minutes to 5 seconds through effective caching, query optimization, and system scaling.
- **Containerized Development Workflow:** Spearheaded the adoption of Docker, Kubernetes, and Helm for container-driven development and deployment processes.
- **Agile Leadership:** Managed Agile sprint ceremonies as a pod lead, aligning team efforts with stakeholder priorities to effectively address the product backlog.
- **Standardized UI Components:** Created a reusable Vue component library to align with company-wide design standards.
- **Innovative Visualization Tools:** Developed a custom web renderer using Eclipse Layout Kernel and D3 for complex fault tree analysis diagrams.

- **Improved Release Management:** Implemented a structured branching and release strategy to ensure stable and predictable software deployments.
- **Enhanced Feature Intake Process:** Advocated for and implemented a new discovery and user story mapping process for better feature integration.
- **Recruitment and Hiring Contributions:** Actively participated in hiring, from interviewing engineers to recruiting interns at university career fairs.

## Development Manager / Senior Software Engineer

[ConnectiveRx](#), 2019 - 2021

*C#, Azure Devops, React, SQL Server, AWS*

- Led initiatives to stabilize core products, enhance scalability and performance, and increase project delivery velocity through CI/CD pipelines.
- Managed a team of 10 engineers, focusing on quarterly goals, performance reviews, and consistent development practices.

## Principal Software Engineer / Senior Software Engineer

[Bentley Systems](#), 2012 - 2019

*C#, AngularJS, React, Typescript*

- Architected a standard SPA Web UI Framework using .NET and AngularJS, leading to its implementation across several projects.
- Managed an international front-end team, driving improvements in software delivery and customer satisfaction through enhanced Agile practices.
- Transitioned team workflow from Scrum to Kanban, significantly increasing output and providing clear metrics for project management.

## Software Engineer

*InspectTech*, 2011 - 2012 (acquired by Bentley Systems in 2012)

*ASP.NET WebForms, Oracle, SQL Server, Javascript, JQuery*

- Developed and customized the Core platform for transportation solutions, supporting various state DOT's and enhancing federal inspection planning.

## Programmer Analyst

[USG Insurance Services, Inc](#), 2005 - 2011

*ASP.NET WebForms, Javascript, JQuery, C#, VB.Net*

- Maintained and developed features for the Broker Management Exchange web application, including designing a high-volume invoicing module.