Michael Henke

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Builder. Mentor. Strategic Technologist.

Innovative IT leader with 20+ years of full-stack experience leading agile teams, mentoring, and delivering secure web apps. Skilled in Cybersecurity, AI, Angular, and React. Improved Customer Vision search by 42% using Lit web components and built reusable Angular 17 solutions for enterprise rail operations.

WORK EXPERIENCE

UNION PACIFIC RAILROAD • 06/2016 - Present

One of North America's leading transportation companies operates a 32,000-mile rail network connecting 23 states across the western United States.

Associate System Engineer (Technology)

Led the development of customer-facing web applications using modern JavaScript frameworks (Lit and Angular), focusing on enhancing user experience and improving system functionality for the railroad's digital transformation initiatives.

- Coordinated monthly tech deep dives attended by 20+ cross-functional stakeholders (developers, business analysts, project managers, and management).

Manager I Audit Information Technology (Finance)

Directed information technology audits and security assessments, evaluating control frameworks and identifying vulnerabilities to ensure regulatory compliance and mitigate cybersecurity risks across the organization's technology infrastructure.

- Conducted audits on CIS v7 controls (9 & 14) over a 6-month period, helping strengthen cybersecurity posture and application security.
- Discovered and documented a critical SMTP spoofing vulnerability using Python in July 2024, bringing a significant email security risk to the attention of Tech.

Associate System Engineer (Technology)

Spearheaded the design and implementation of enterprise software solutions, developing Angular applications that streamlined railroad operations and improved customer interactions through intuitive digital platforms.

- Built Shipment Management application using Angular 14 over a 9-month development cycle, driving $1.8M in capital wins and reducing operational costs by 22%.
- Facilitated monthly developer training throughout 2022-2023, improved developer experience, collaboration, knowledge of Git, code review process, and AI.

Associate System Consultant Reporting (Finance)

Managed the development and implementation of business intelligence solutions, creating data visualization tools and automating reporting processes to enhance decision-making capabilities for financial and operational teams.

- Trained 75+ users on Tableau self-service over a 16-month period, cutting outside facilitator-led training costs by $85,000 annually.
- Automated Tableau stale content and user cleanup with Python scripts developed in Q3 2020, reducing manual effort by 70% and saving 15+ hours monthly.

Manager II Business Intelligence (Finance)

Oversaw the creation and maintenance of data analytics infrastructure, implementing self-service reporting solutions that provided critical business insights and improved data accessibility across multiple departments.

- Developed 29 data sources within the first half of 2019, enabling customers to access critical information that increased self-service adoption by 78%.

Manager II Business Intelligence (Marketing & Sales)

Directed the implementation of business intelligence initiatives for marketing and sales departments, developed analytics solutions that enhanced customer insights and supported data-driven decision-making.

- Enhanced the Smart ETA application during November 2018, improving Equipment Trace screen aesthetics and reducing user navigation errors by 25% within the first month of implementation.

Business Integration Consultant II (Marketing and Sales)

Facilitated the integration of business processes with technology solutions, designing and developing customer-focused applications that improved operational efficiency and enhanced the railroad's service capabilities.

- Created and maintained a Load Diagram Repository application using Angular 5, spending 6 months improving customer access and reduced data retrieval time by 55%.

EDUCATION

Masters of Science in Cybersecurity (Cyber Operations)

University of Nebraska at Omaha

In Progress, Active since January 2024

Graduate Certificate in Artificial Intelligence

University of Nebraska at Omaha

In Progress, Active since Jul 2023

Graduate Certificate in Cybersecurity

University of Nebraska at Omaha

2024 | Conferred

Bachelor's in Management Information Systems & Business Management (Double Major) minor Computer Science

Peru State College • Peru

1999 | Conferred

CERTIFICATIONS

Google Cybersecurity Certificate • 12/2024

Google

Certified Scrum Master • 01/2012

Scrum Alliance

SKILLS

Programming: Angular (8-17), HTML5/CSS3, JavaScript, Lit Framework, Modern JavaScript frameworks, Next.js, React, Svelte, TypeScript

Architecture & Design: Full-Stack Application Development, Microservices, Object-Oriented Programming

Cloud & Infrastructure: AWS, Azure, CI/CD Pipelines, Git, GitHub, SonarQube

Security & Compliance: Application Security, CIS v7 Controls, Security Assessments, SOX Compliance Standards

AI & Emerging Technologies: AI Graduate Certificate, AI Usage, Machine Learning Integration

Software Development: Agile Scrum (CSM Certified), Software Development Methodologies, Test-Driven Development

Project Management: Backlog Refinement, Continuous Improvement, Release Management, Sprint Planning

Leadership & Collaboration: Code Reviews, Cross-functional Collaboration, Customer Experience, Knowledge Sharing, Technical Mentoring