Michael Henke

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Engineer. Educator. Strategist.

Innovative IT professional with 20+ years of development experience across enterprise and mid-market organizations, including 8+ years of full-stack development at Union Pacific Railroad, leading agile teams, mentoring developers, and delivering secure enterprise applications. Graduate-certified in Cybersecurity (3.388 GPA) with active pursuit of MS in Cyber Operations. Enhanced Customer Vision functionality using modern web components and architected reusable Angular solutions supporting 20K+ users across 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) • 09/2024 - Present

Orchestrated 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)
- Modernized Customer Vision search functionality using Lit web components and Angular 17 solutions

Manager I Audit Information Technology (Finance) • 01/2024 - 08/2024

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.

- Executed comprehensive audits on CIS v7 controls (9 & 14) over a 6-month period, strengthening cybersecurity posture and application security
- Identified and documented a critical SMTP spoofing vulnerability using Python in July 2024, escalating significant email security risk to Tech leadership

Associate System Engineer (Technology) • 12/2021 - 12/2023

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

- Architected Shipment Management application using Angular 14 over a 9-month development cycle, contributing to the $1.8M Shipment Management Build Out initiative supporting ~20K users with platforms averaging 1.7M hits per month
- Facilitated 8+ developer training sessions throughout 2022-2023, advancing developer experience, collaboration, knowledge of Git, code review process, and AI

Associate System Consultant Reporting (Finance) • 07/2020 - 11/2021

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.

- Instructed 50+ users on Tableau self-service over a 16-month period, significantly reducing outside facilitator-led training costs
- Automated Tableau stale content and user cleanup with Python scripts developed in Q3 2020, eliminating manual administrative effort and time-intensive processes
- Pioneered implementation of LDAP transition affecting 100+ Tableau users, establishing automated processes and comprehensive documentation

Manager II Business Intelligence (Finance) • 01/2019 - 06/2020

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.

- Established 29 data sources within the first half of 2019, enabling customers to access critical information and increasing self-service adoption
- Consolidated technology portfolio by retiring 9 legacy ColdFusion applications, reducing maintenance overhead

Manager II Business Intelligence (Marketing & Sales) • 10/2018 - 12/2018

Transformed business intelligence initiatives for marketing and sales departments, deploying analytics solutions that enhanced customer insights and supported data-driven decision-making.

- Optimized the Smart ETA application during November 2018, elevating Equipment Trace screen aesthetics and user experience

Business Integration Consultant II (Marketing and Sales) • 06/2016 - 09/2018

Coordinated 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.

- Delivered and maintained a Load Diagram Repository application using Angular 5, accelerating customer access to load diagram data over a 6-month development period

EDUCATION

Master of Science in Cybersecurity (Cyber Operations)

University of Nebraska at Omaha

Expected 2025 | Currently Enrolled (Started October 2024)

Graduate Certificate in Cybersecurity

University of Nebraska at Omaha

December 2024 | Conferred (GPA: 3.388)

Graduate Certificate in Artificial Intelligence

University of Nebraska at Omaha

Currently Enrolled | Started July 2023

Bachelor of Science in Management Information Systems & Business Management (Double Major)

Minor: Computer Science

Peru State College • Peru, NE

1999 | Conferred

CERTIFICATIONS

Google Cybersecurity Certificate • 12/2024

Google

Certified Scrum Master • 01/2012

Scrum Alliance

SKILLS

Core Programming & Frameworks: Angular (8-17), JavaScript/TypeScript, HTML5/CSS3, Lit Framework, ColdFusion, Next.js, Svelte

Verified through UP application development and graduate coursework

Data & Analytics: Tableau, SQL, Python, Business Intelligence, Data Visualization
Confirmed through BI manager roles and automation projects

Security & Compliance: Cybersecurity Assessments, CIS v7 Controls, SOX Compliance, Application Security, SMTP Security Analysis
Verified through IT Audit role and graduate certification (3.388 GPA)

Cloud & Infrastructure: AWS, Cloud Computing, CI/CD Pipelines, Git, Software Assurance
Confirmed through graduate coursework and development practices

Development Practices: Agile Scrum (CSM Certified), Code Reviews, Test-Driven Development, Software Engineering
Confirmed through developer training facilitation

Project Management: Sprint Planning, Backlog Refinement, Release Management, Cross-functional Collaboration
Demonstrated through stakeholder coordination and team leadership

Leadership & Mentoring: Technical Training Facilitation, Knowledge Sharing, Developer Mentoring, Team Coordination
Verified through performance reviews and training initiatives