

# Michael Henke

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## Engineer. Leader. Strategic Technologist.

Senior Software Engineer with 20+ years of full-stack development experience building enterprise applications serving 20,000+ users. Proven technical leader specializing in modern JavaScript frameworks (Angular 8-17), Python automation, and enterprise system architecture. Delivered \$1.8M in capital wins through innovative application development and identified a critical SMTP spoofing vulnerability using Python scripting. Expert in leading development teams, facilitating technical training, and bridging complex business requirements with robust technical solutions in enterprise environments.

## WORK EXPERIENCE

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### UNION PACIFIC RAILROAD • Jun 2016 - Present

#### Associate System Engineer - Technology • Sep 2024 - Present

Lead full-stack development of customer-facing web applications using modern JavaScript frameworks (Angular 17, Lit Framework), focusing on enhancing user experience and system functionality.

- Coordinate 6+ monthly tech deep dives with 20+ cross-functional stakeholders since joining the team
- Enhanced Customer Vision search functionality through Angular 17 implementation within 2 months, improving user experience and system performance
- Executed modernization of customer-facing platform architecture using Lit Framework and Angular 17 components

#### Manager I Audit Information Technology - Finance • Jan 2024 - Aug 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.

- Conducted comprehensive audits on CIS v7 controls over 6-month period, strengthening cybersecurity posture
- Discovered critical SMTP spoofing vulnerability through Python analysis in July 2024, escalating significant email security risk to Tech leadership
- Completed Tech SOX compliance audits and control testing during 8-month audit tenure, ensuring regulatory adherence across technology infrastructure

#### Associate System Engineer - Technology • Dec 2021 - Dec 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.

- Built the Shipment Management application using Angular 14 within 9 months, driving \$1.8M in project funding and enhancing operational efficiency.
- Developed 5 enterprise platforms including Shipment Dashboard and Track Shipment, providing comprehensive business intelligence
- Facilitated 8+ developer training sessions throughout 2022-2023, advancing Git, code review, and AI knowledge

#### Associate System Consultant Reporting - Finance • Jul 2020 - Nov 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.

- Trained 50+ users on Tableau self-service over 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

#### Manager II Business Intelligence - Finance • Jan 2019 - Jun 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.

- Developed 29 data sources in H1 2019, enabling customers to access critical information using Tableau and SQL Server

- Consolidated technology portfolio by retiring 9 legacy ColdFusion applications, reducing maintenance overhead

### **Manager II Business Intelligence - Marketing & Sales • Oct 2018 - Dec 2018**

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 Smart ETA application in November 2018, reducing user navigation errors substantially within the first month
- Enhanced RATE application with Premium team in first half of 2018, eliminating duplicate opportunities and implementing column calculations

### **Business Integration Consultant II - Marketing & Sales • Jun 2016 - Sep 2018**

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 Load Diagram Repository application using Angular 5, spending 6 months improving customer access and reduced data retrieval time
- Developed front-end UI for Customer Contract System using Angular, transforming mock-ups into a production application used by all business teams within 4 months

## **EDUCATION**

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### **Graduate Certificate in Artificial Intelligence**

University of Nebraska at Omaha

In Progress, Active since July 2023

### **Masters of Science in Cybersecurity (Cyber Operations)**

University of Nebraska at Omaha

In Progress, Active since January 2024

### **Graduate Certificate in Cybersecurity**

University of Nebraska at Omaha

Conferred | 2024 | GPA 3.388

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

Peru State College

Conferred | 1999

## **CERTIFICATIONS**

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### **Google Cybersecurity Certificate • Dec 2024**

### **Certified Scrum Master • Jan 2012**

## **SKILLS**

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**Languages & Frameworks:** Angular (8-17), HTML5/CSS3, JavaScript, Lit Framework, Next.js, Node.js, Python, React, Svelte, Typescript

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

**Security & Compliance:** Application Security, CIS v7 Controls, Cybersecurity Assessments, Penetration Testing, SOX Compliance

**Data & Analytics:** Business Intelligence, Data Visualization, SQL Server, Tableau

**Leadership & Collaboration:** Agile/Scrum (CSM Certified), Cross-functional Collaboration, Developer Training, Technical Leadership