

# 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 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

Develop enterprise applications for one of North America's leading transportation companies operating a 32,000-mile rail network across 23 states

#### 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 monthly tech deep dives with 20+ cross-functional stakeholders since September 2024
- Enhanced Customer Vision search functionality through Angular 17 implementation within 2 months, improving user experience and system performance

#### 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

#### 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 Shipment Management application with Angular 14 over 9-month development cycle (2022-2023), contributing to \$1.8M capital wins and reducing operational costs by 22%
- 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, reducing manual effort by 70% and saving 15+ hours monthly

#### 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 within the first half of 2019, enabling customers to access critical information that increased self-service adoption by 78%

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

### **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 during November 2018, improving Equipment Trace screen aesthetics and reducing user navigation errors by 25% within first month of implementation
- Collaborated with Premium team to enhance RATE application, eliminating duplicate opportunities and implementing column calculations to improve pricing analysis efficiency

### **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 by 55%
- 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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### **University of Nebraska at Omaha**

Graduate Certificate in Artificial Intelligence

In Progress, Active since July 2023

Masters of Science in Cybersecurity (Cyber Operations)

In Progress, Active since January 2024

Graduate Certificate in Cybersecurity

Conferred | 2024 | GPA 3.388

### **Peru State College**

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

Conferred | 1999

## **CERTIFICATIONS**

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**Google Cybersecurity Certificate** • Dec 2024

**Certified Scrum Master** • Jan 2012

Scrum Alliance

## **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