Michael Henke

Omaha, NE • 402-577-0059 • henke.mike@gmail.com • linkedin.com/in/henkemike • https:/mikehenke.com

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 mentoring development teams, facilitating technical training, and bridging complex business requirements with robust technical solutions in enterprise environments.

WORK EXPERIENCE

UNION PACIFIC RAILROAD • 06/2016 - Present

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

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 including developers, business analysts, project managers, and management since September 2024

- Enhanced Customer Vision search functionality through Angular 17 implementation, improving user experience and system performance

- 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

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 comprehensive audits on CIS v7 controls (9 & 14) over 6-month period (January-August 2024), helping strengthen cybersecurity posture and application security

- Discovered critical SMTP spoofing vulnerability through Python analysis in July 2024, escalating significant email security risk to Tech leadership and ensuring swift mitigation

- Collaborated with security teams to evaluate control frameworks and identify vulnerabilities for regulatory compliance

Associate System Engineer - Technology

EDUCATION

Masters of Science in Cybersecurity (Cyber Operations)

University of Nebraska at Omaha
Omaha, NE

In Progress, Active since January 2024

Graduate Certificate in Artificial Intelligence

University of Nebraska at Omaha
07/2023 - Present

In Progress, Active since January 2024

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 enterprise platforms including Shipment Dashboard, Forecast, Track Shipment, Party to Shipment, and Train Visibility applications, providing comprehensive business intelligence across shipping operations
- 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

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
- Pioneered LDAP transition implementation affecting 100+ Tableau users, establishing automated processes and comprehensive documentation

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

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 Smart ETA application during November 2018, improving Equipment Trace screen aesthetics and reducing user navigation errors by 25% within first month of implementation
- Transformed business intelligence initiatives for marketing and sales departments, deploying analytics solutions that enhanced customer insights and supported data-driven decision-making

Business Integration Consultant II - Marketing & 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 Load Diagram Repository application using Angular 5, spending 6 months improving customer access and reduced data retrieval time by 55%

Graduate Certificate in Cybersecurity

University of Nebraska at Omaha
GPA: 3.388

2024 | Conferred

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

Peru State College
Peru

1999 | Conferred

- Coordinated integration of business processes with technology solutions, designing customer-focused applications that enhanced railroad service capabilities
- Delivered and maintained applications using Angular 5, accelerating customer access to load diagram data over 6-month development period