(231) 357-1189karlhaworth.comme (at) karlhaworth.comABOUTDriven and motivated professional with a proven track record of leadership in application and cloud architecture, software delivery, and team collaboration. Recognized for being a quick learner with a creative mindset and exceptional problem- solving skills. Possess extensive experience in planning, analyzing, and implementing innovative solutions.March 2023 - FEXPERIENCEArchitect - Developer Accelerator Product Group (DevOps/DevEx), American AirlinesMarch 2023 - FWorked in the Product Agility Worked in the Product Agility organization supporting the solution. strategy, and planning of technical implementationsMarch 2023 - F• Collaborated with other Architects in Technology and Transformation to provide direction for Developer AcceleratorNaccelerator• Led discussions with Product Technical Leads and Technical Delivery Managers to determine technical strategy and skills requiredAligned product group strategies with enterprise initiatives and principals • Assisted engineers in selecting solutions that met business requirements and long-term goals • Collaborated with neighboring organizations to incorporate networking design considerations • Partnered with Engineering team to streamline redeployment and configuration of major infrastructure, re in a 300% increase in efficiency and enhanced SLAs and KPIs • Ensured backlog reflected appropriate technical solutions to achieve product objectives and priorities • Responsible for finops practices within an organization where financial savings were established and	(231) 35		J. Haworth		
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 Responsible for imporvements to budget forces within an organization where inducted savings were established and improvements to budget forces alting were made Designed layered security solution in partnership with secrets management team and platform to ensure security in dynamic environments, including Kubernetes and GitHub actions Implemented secure base images and image scanning protocols for enterprise utilizing GitHub Actions, enhancing security measures Improved Enterprise CI/CD pipelines and actions through collaboration with external teams to ensure sure while reducing time to complete Contributed to open source initiatives through updates, capability enhancements, security fixes, and improvements in Dockerfile security in helm charts and Backstage plugins Led multiple proof of concepts (POC) and beta programs to introduce various services and products to the enterprise Implemented Automated Delivery Governance utilizing the Sigstore framework to attest to artifacts produ CI/CD processes along with Supply-chain Levels for Software Artifacts (SLSA) provenance and signing Contributed to overall GitHub Actions testing plan for internally provided workflows and actions using tes repositories, test workflows, and ephemeral repositories while applying Software Development methodo Identified and resolved areas of technical clebt Actively participated in Diversity, Inclusion, and Equity (DEI) sessions and trainings to promote diverse perspectives Supported hiring processes, description creation, and candidate selection at various job levels Contributed and worked on logging strategies utilizing FluentBit with structured logging Senior Principal Developer, Product Technical Lead - Developer American Artines Developed overall strategic technical plans and crafted architectural solutions for automation using Demethodologi	F \ \ i ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	 Architect - Developer Accelerator I Product Agility Worked in the Product Agility orgatimplementations Collaborated with other Archit Accelerator Led discussions with Product Strategy and skills required Aligned product group strategi Assisted engineers in selecting Collaborated with neighboring Partnered with Engineering teatin a 300% increase in efficience Ensured backlog reflected app Responsible for finops practication improvements to budget forect Designed layered security solusecurity in dynamic environmation Implemented secure base imatenhancing security measures Improved Enterprise CI/CD pip while reducing time to complete Contributed to open source initi improvements in Dockerfile setenterprise Implemented Automated Deliv CI/CD processes along with S Contributed to overall GitHub Arepositories, test workflows, and Identified and resolved areas of Actively participated in Diversing perspectives Supported hiring processes, de Contributed and worked on log Senior Principal Developer, Product Agility Worked in the Delivery Transformation and worked with the capabilities for Payment Card I Facilitated knowledge transfer 	ization supporting the solution, s ets in Technology and Transform achnical Leads and Technical De- solutions that met business requir- ganizations to incorporate netwo in to streamline redeployment ar- and enhanced SLAs and KPIs opriate technical solutions to ack- within an organization where fir- sting were made on in partnership with secrets m its, including Kubernetes and Giff es and image scanning protocol lines and actions through collab- atives through updates, capabilit urity in helm charts and Backsta POC) and beta programs to intro- ry Governance utilizing the Sigsto pply-chain Levels for Software An tions testing plan for internally p dephemeral repositories while a technical debt r, Inclusion, and Equity (DEI) sess cription creation, and candidate ing strategies utilizing FluentBit Technical Lead - Developer tion organization creating architect antical plans and crafted architect antical plans and crafted architect am to implement additional Glob dustry (PCI) workloads essions on Network Routing, Do	strategy, and planning of technical nation to provide direction for Developer elivery Managers to determine technical principals uirements and long-term goals vorking design considerations nd configuration of major infrastructure, r hieve product objectives and priorities inancial savings were established and hanagement team and platform to ensure itHub actions Is for enterprise utilizing GitHub Actions , poration with external teams to ensure su ty enhancements, security fixes, and age plugins poduce various services and products to the core framework to attest to artifacts produ- rtifacts (SLSA) provenance and signing provided workflows and actions using test applying Software Development methodo assions and trainings to promote diverse e selection at various job levels with structured logging American Airlines June 2022 - Mari ectural solutions for automation using De- cure strategy for shared Kubernetes clus Airlines IT elex integrations between multiple teams bal Traffic Management (GTM) automatio	resulting incress he uccess he ucced in st blogies evOps sters for sters for

- Contributed to product group strategy and roadmaps
- Directed knowledge transfer sessions to foster transparent knowledge sharing

- Supported hiring panels, description creation, and candidate selection at multiple job levels
- Principal Programmer, Product Technical Lead, Developer

Experience

Led architectural solutions for automation using DevOps methodologies within the Delivery Transformation organization

- Developed overall strategic technical plans and created architecture strategy for a developer portal used across all American Airlines information technology
- Mentored, guided, and supported developers across American Airlines IT department
- Developed and executed strategic technical plans and architecture strategy for shared Kubernetes clusters for enterprise use

American Airlines

- Architected, built, and operated a Kubernetes Operator to reduce the native Kubernetes manifest, communicate with Global Traffic Management (GTM) providers (Akamai and Infoblox), and create ephemeral environments based on Pull Requests
- Worked with teams to troubleshoot application migrations to Kubernetes and provide ongoing support
- Decreased overall Enterprise time to deploy meshed cross-region Kubernetes clusters using internal networks using GitHub Actions and Terraform
- Showcased expertise in automation architecture as a subject matter expert

Principal Engineer, Developer Experience

June 2020 - January 2021

January 2021 - June 2022

Worked in the Delivery Transformation organization contributing to the creation of solutions for automation using devops methodologies

- Orchestrated the planning, architecture, implementation, and management of an InnerSourced Internal Developer Portal (IDP) utilizing Backstage.io
- Formulated architecture proposals based on identified solution gaps
- Managed complex issues within functional area of expertise and contributed to overall strategic direction
- Leveraged multiple Azure Services such as App Services, Functions, Redis, Postgres, Storage Accounts, and Azure Kubernetes Service (AKS) though Infrastructure as Code (IAC) mainly using Terraform
- Directed a team of developers as the technical lead, ensuring adherence to Agile best practices
- Simplified complex designs and implementations through a user-friendly developer portal supported by various backend services
- Collaborated with stakeholders and end users throughout the software development lifecycle
- Worked with developers across the company to implement their solutions into an InnerSource framework
- Developed functionality using React, Typescript, and GitHub Actions

	Network Automation Engineer		American Airlines	June 2019 - June 2020			
	Senior IT Infrastructure Engineer, Netwo	orking	American Airlines	January 2018 - June 2019			
	IT Infrastructure Engineer, Networking		American Airlines	June 2016 - January 2018			
	Associate IT Infrastructure Engineer (Al	DEPT)	American Airlines	June 2014 - June 2016			
	Statistical Analyst Intern		US Airways	July 2012 - June 2014			
TECHNICAL	Process Automation Internal Developer	Portal (IDP) Backstage.io Ki	ubernetes Helm Ser	vice Mesh Certificates			
SKILLS	Cloud Environments Terraform (IAC) O	bject Oriented Programming	Unit Testing Integrati	on Testing TypeScript			
	JavaScript React Express Python Continuous Integration (CI) Continuous Deployment (CD) GitOps Docker						
	GitHub Actions git Rest APIs Relational Databases Agile methodology Networking						
	Global Traffic Management (GTM) Domain Name System (DNS)						
RECOGNITION	Thank you for the numerous times that you have supported the refunds domain. On several occasions you have went above and beyond for us. I appreciate your partnership.						
	- Senior Manager, IT Applications			April 11, 2024			
	Karl, You've dialed into security items this quarter and it has been awesome. From setting up Chainguard to be easy peasy, to looking to the future for our security, it's been awesome. Thank you!!! #Accountable to a more secure AA. - Senior Manager, IT Agile and DevOps						
	Karl, I want to express my gratitude for your unwavering support of our team. Your expertise and patience consistently leadto learning and improved, secure technological outcomes. Thank you for all you do. #Accountable- Engineering Manager, IT DevOpsMarch 30, 2024						
VOLUNTEERING	Mentor - Engineering Academy			Oct 1, 2021 - Present			
	Engineering Academy Guidance Board	Member - Engineering Acad	emy	Oct 1, 2021 - Present			
COMMUNITY ENGAGEMENTS	BackstageCon Europe 2024 Program Co CloudNativeCon	ommittee Member - Backsta	geCon -	Jan 26, 2024)			
	Ecosystem Panel - Analyst Event - Kube	Con - CloudNativeCon		Nov 7, 2023			
	Hitting the Runway with Argo at American Airlines - ArgoCon - CloudNativeCon Nov 6, 2023						
	Backstage at the world's largest airline	- The Journey to the Interna	l Developer Portal	Oct 4, 2023			

August 2010 - May 2014