Darwin Martin

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Principal Software Engineer

I am an award-winning Principal Software Engineer with over 20 years of experience in cloud and connected device technology. I excel in driving innovation, reducing release cycles by 80%, and increasing system availability to 99%. At Resideo, I transitioned media services to in-house development, enhancing customization, reducing turnaround times by 60%, and saving $2M annually. I improved data accuracy and insights, boosting customer satisfaction by 25% and new business by 15%. Proven in cloud architecture, automation, and project leadership.

WORK EXPERIENCE

Resideo • Austin, Texas, United States · Remote • 09/2017 - Present
Principal Software Engineer

- I created the complete media solution for Resideo, transitioning our camera solutions from reliance on white-label vendors to full in-house development and management. This strategic shift increased our operational costs but enhanced our product customization capabilities, decreased development turnaround times by 60%, and eliminated third-party fees for code changes and analytics access, saving the company $2M annually. By owning the analytics data, we improved data accuracy and insights, contributing to a 25% increase in customer satisfaction and a 15% growth in new business within the first year.
- Utilized Ansible and Terraform to automate 90% of tasks, boosting deployment speed by 80% and accuracy by 99%. Automated new certificate deployment across environments, enhancing system reliability and confidence.
- Reduced release cycle time by 80% through implementing CI/CD, leading to an increase in product deployment efficiency and system reliability.
- Integrated Azure Kubernetes Service (AKS) at Resideo, driving cloud infrastructure transitions and optimizations. Using Artifactory, Jenkins, and Flux, reduced deployment times by 35% and increased stability by 45%. Improved user ratings from 3 to 4 stars.
- Implemented modern technologies, leading to a 99% increase in system availability and reliability, enhancing overall service delivery.
- Security and Compliance: Enhanced system security and ensured compliance by enabling the Operations team to deploy new certificates with zero downtime across multiple environments.
- Developed disaster recovery plans and hardening procedures for media storage, ensuring 24/7 availability of services. Conducted risk management assessments, and established staging environments to test failover capabilities.

- Conducted comprehensive impact assessments and privacy impact assessments to ensure the security and privacy of media assets, including clips and images. Utilized advanced security engineering practices to protect these assets from unauthorized access and potential breaches.
- Enhanced cloud security and ensured compliance by enabling the Operations team to deploy new certificates with zero downtime across multiple environments, leveraging DevSecOps practices and PKI (public key infrastructure) solutions.

Honeywell • Greater Atlanta Area • 09/2017 - 10/2018
Principal Software Engineer

- Award-Winning Innovation: Led a project that was recognized with a prestigious Innovation Award, highlighting outstanding creativity and impact in the development of smart home solutions.
- Project Leadership: Spearheaded the development of innovative thermostat software, leading a team from concept to deployment. Achieved a 50% reduction in user energy consumption and a 30% increase in satisfaction. Advanced algorithms and user-friendly interfaces boosted product adoption by 40% in six months, contributing to a 20% revenue increase for the smart home division.
- Kubernetes Implementation and Management: Spearheaded the implementation and management of Kubernetes clusters to orchestrate containerized applications, resulting in a 35% reduction in deployment times and a 45% increase in application stability.
- ARM Templates for Infrastructure Automation: Developed and utilized Azure Resource Manager (ARM) templates to automate the deployment and configuration of infrastructure, enhancing deployment efficiency and consistency by 50%.
- Microservices Architecture: Led the migration of monolithic applications to a microservices architecture using Kubernetes, improving scalability and fault isolation, which resulted in a 30% increase in system reliability and a 20% improvement in performance.
- Continuous Integration/Continuous Deployment (CI/CD): Integrated Kubernetes with CI/CD pipelines using Jenkins and Flux, which streamlined the build and deployment processes, reducing build errors by 40% and production issues by 30%.
- Security and Compliance: Implemented security best practices within the Kubernetes environment, including role-based access control (RBAC) and network policies, ensuring compliance with industry standards and reducing security incidents by 25%.
- Monitoring and Logging: Established comprehensive monitoring and logging solutions for Kubernetes clusters using Prometheus and Grafana, leading to a 50% faster identification and resolution of production issues.
- Team Collaboration and Mentorship: Collaborated with cross-functional teams to design and implement Kubernetes-based solutions, and mentored junior engineers on best practices in containerization and orchestration, fostering a culture of continuous improvement and innovation.

Seismic Software • Greater San Diego Area • 07/2016 - 08/2017
Senior Software Engineer

- Analytics Application Development: Pioneered the development of an application that collects analytics data from devices through an event hub, significantly enhancing data-driven decision-making capabilities.
- Technical Standardization: Played a crucial role as the first U.S.-based engineer in setting technical standards and project direction, establishing foundational practices for subsequent development efforts.

Mitchell International • Greater San Diego Area • 05/2004 - 07/2016
Principal Engineer

- Multi-platform Engineering: Pioneered multi-platform integration, successfully implementing solutions across both Windows and Linux OS, which enhanced system versatility and reliability.
- Innovative Revenue Solutions: Designed and developed an Auto Salvage solution that generates over a million dollars in annual revenue, demonstrating significant commercial and technical impact.

PCS Health Systems • 01/1994 - 12/2004
Programmer

- Developed and maintained software applications using C and C++ on Unix systems.
- Implemented system-level programming to enhance performance and functionality.
- Managed and optimized storage solutions, including file systems and database interfaces.

SKILLS

- Agile Methodologies
- Agile Project Management
- aks
- Amazon Web Services (AWS)
- Ansible
- C#
- C++
- Cloud Applications
- Cloud Computing
- Containerization
- Continuous Delivery (CD)
- Continuous Integration (CI)
- Cross-functional Team Leadership
- DevOps
- Docker Products
- Elasticsearch
- Elastic Stack (ELK)
- Enterprise Architecture
- Enterprise Software
- git
- GraphQL
- Internet of Things (IoT)
- Java
- JavaScript
- Kafka
- Kubernetes
- Linux
- Microservices
- Microsoft Azure
- Microsoft SQL Server
- .NET
- .NET Core
- .NET Framework
- Project Management
- RabbitMQ
- Requirements Analysis
- SaaS
- Scrum
- SDLC
- Service-Oriented Architecture (SOA)

- SOA
- SOAP
- Software as a Service (SaaS)
- Software Design
- Software Development
- Software Development Life Cycle (SDLC)
- Software Engineering
- Software Project Management
- SQL
- System Architecture
- Terraform
- Test Driven Development
- Web Services
- XML