Darwin Martin

Atlanta, Georgia • darwinkmartin@methodnotfound.com • linkedin.com/in/darwinkmartin • methodnotfound.com

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%. I have a proven track record in cloud architecture, automation, and project leadership.

WORK EXPERIENCE

Honeywell International • Atlanta,GA • 09/2024 - Present
Sr Advanced Software Engineer • Full-time

- **Define and manage Infrastructure as Code (IaC)** using Terraform to provision, scale, and version-control complex Azure cloud environments, ensuring repeatability, auditability, and reduced configuration drift.
- **Lead Kubernetes-based container orchestration** using Helm to deploy microservices, manage lifecycle upgrades, and implement safe deployment strategies including canary and blue/green rollouts.
- **Implement secure cloud networking and service meshes** using Azure Private Endpoints, Network Security Groups (NSGs), and Istio for fine-grained traffic control and defense-in-depth security.
- **Design and support event-driven architectures** leveraging Azure Event Grid, Event Hub, and IoT Hub with Terraform-defined routes, subscriptions, and role-based access control (RBAC) for scalable telemetry and alerting.
- **Support FedRAMP-compliant workloads** by enforcing identity-based security, auditing Key Vault access, and isolating resources via private networking, DNS zoning, and firewall configurations.
- **Troubleshoot and optimize system performance**, driving infrastructure-level diagnostics and root cause analysis to improve availability, reduce latency, and eliminate toil in production environments.
- **Mentor engineers and define SRE best practices**, improving incident response, increasing infrastructure observability, and evangelizing Terraform module reuse and policy-as-code enforcement.

Resideo Technologies (A Spin-off of Honeywell International) · Austin, Texas, United States · Remote · 09/2018 – 09/2024
Principal Software Engineer

- I created the complete media solution, 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.
- Reduced release cycle time by 80% through implementing CI/CD, leading to an increase in product deployment efficiency and system reliability.
- Kubernetes Integration and CI/CD Optimization: I was instrumental in the integration of Kubernetes at Resideo, driving cloud infrastructure transitions and optimizations. Using Artifactory, Jenkins, and Flux, I reduced deployment times by 35% and increased application stability by 45%. This streamlined our CI/CD pipeline, cutting build errors by 50% and production issues by 40%. Our application's user ratings improved from 3 stars to 4 stars, significantly boosting customer satisfaction.
- Infrastructure Automation: Utilized Ansible and Terraform to implement automation solutions that eliminated 90% of manual tasks, increased deployment speed by 80%, and improved accuracy by 99%. Developed scripts for automating the deployment of new certificates across all environments, enhancing system reliability and operational confidence.

Honeywell International · Greater Atlanta Area · 09/2017 – 10/2018
Principal Software Engineer

- Led a project that was recognized with a prestigious Innovation Award, highlighting outstanding creativity and impact in the development of smart home solutions.
- I directed the design, development, testing, and implementation of thermostat software using Java and Kotlin for Android, Swift for iPhone, and React for web applications, ensuring the delivery of user-centric and innovative solutions. This application boosted user satisfaction ratings by 20%.
- I cultivated a collaborative environment that enabled the team to excel and innovate, contributing to the project's success and industry recognition while maintaining a zero attrition rate.

Seismic Software · Greater San Diego Area · 07/2016 – 08/2017
Senior Software Engineer

- I designed and developed a comprehensive authentication service using OAuth 2.0, OpenID Connect, and SAML, focusing on robust API and backend solutions.
- I initiated the development of an service that collects analytics data from devices through a data stream, significantly enhancing data-driven decision-making capabilities. This improvement led to a 25% boost in operational efficiency and provided actionable insights that increased productivity by 20%.

- I 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

- I implemented performance optimization efforts that resulted in a 25% increase in application performance, aligning with service level agreements and securing a top client for the company.
- I designed and developed an Auto Salvage solution, generating over $1 million in annual revenue and demonstrating significant commercial and technical impact.

Caremark · 01/1994 – 12/2004
Programmer

- Multilingual Correspondence: Implemented a multi-language capability for printed correspondence, broadening the system's usability and accessibility for a diverse member base.
- I developed standardized templates for printed correspondence tailored to the needs of the mail order facility, transitioning from free-form documents. This change reduced document creation time by 40%, streamlining processes and enhancing operational consistency.

SKILLS

Programming Languages:

- C#
- C++
- Go
- Java
- .NET
- .NET Core
- .NET Framework
- Python
- Rust

Cloud Platforms & Services:

- APIM (API Management)
- ARM (Azure Resource Manager)
- AWS KVS (Amazon Kinesis Video Streams)
- Azure IoT Hub
- Blob Storage
- EKS (Elastic Kubernetes Service)
- Event Grid
- GCP (Google Cloud Platform)
- GCP (Google Cloud Platform)
- Microsoft Entra ID
- Service Bus

DevOps & Automation:

- Argo
- Artifactory
- CI/CD (Continuous Integration)/(Continuous Delivery)
- Flux
- Gitlab
- Grafana
- Prometheus
- Puppet
- Sonarqube

Databases & Data Management:

- Cassandra
- CosmosDb
- Data Factory
- DynamoDb
- Firestore
- MongoDb
- MySQL
- PostgreSQL
- Redis
- Redshift
- Snowflake

Application Development:

- Cloud Applications
- Cloud Computing
- Enterprise Architecture
- Enterprise Software
- SaaS (Software as a Service)
- SDLC (Software Development Lifecycle)
- Software Design
- System Architecture

Frameworks:

- ASP.NET
- Spring

Software Development & Architecture:

- GraphQL
- Microservices
- .NET
- .NET Core
- .NET Framework
- SOAP
- SOA (Service-Oriented Architecture)
- Web Services
- WebSocket
- XML

Specialized Domains:

- Containerization
- IoT (Internet of Things)

Methodologies and Practices:

- Agile Methodologies
- Agile Project Management
- Cross-functional Team Leadership
- Project Management
- Requirements Analysis
- Scrum
- SDLC (Software Development Life Cycle)
- SOA (Service Oriented Architecture)
- TDD (Test Driven Development)

Operating Systems:

- Linux
- Microsoft Windows