Gregory Arcara

Senior Software Engineer / Cloud & DevOps Specialist
Specializing in: Azure, Terraform, DevOps, Networking, CI/CD, Containers, Kubernetes, Node.js, Golang, C#, SQL, AWS

Summary

Hands-on engineer and architect with 15+ years of experience spanning application development, DevOps, and cloud infrastructure. Recognized as a DevOps Subject Matter Expert with a proven record in Azure Landing Zones, Terraform automation, and secure multi-tenant architectures. Adept at leading teams, standardizing practices, and delivering solutions that scale from enterprise ERP to IoT ecosystems supporting tens of thousands of devices.

Key Skills

- **Cloud & Infrastructure:** Azure Landing Zones (ALZ/AVM), vWAN, Firewall, Private Endpoints, AWS Services
- **DevOps & IaC:** Terraform, Azure DevOps Pipelines, GitHub Actions, Jenkins, Concourse CI, Helm
- **Security & Governance:** WAF (Azure/Imperva), Identity & Access Management, Code/Dependency Scanning, Secret Management
- **Programming & Frameworks:** Node.js, Golang, C#, SQL, Typescript, PHP (Laravel), Elixir/Phoenix, React

Professional Experience

2023–Present   *Cloud & DevOps Consultant for Netrio (Remote)*

Leading infrastructure modernization and DevOps initiatives for global manufacturing and IoT solutions.

- Serve as **Solutions Architect** and **DevOps Subject Matter Expert**, guiding cross-functional teams on Azure infrastructure and DevOps practices.
- Standardized e-commerce website infrastructure with Terraform and unified code deployment workflows with Azure DevOps pipelines, improving consistency and reducing manual errors.
- Designed and implemented Azure Landing Zones (ALZ/AVM) with secure hub-and-spoke and vWAN architectures.
- Built and maintained Terraform modules and Azure DevOps pipelines (with Workload Identity Federation) to support secure multi-tenant automation.
- Enforced governance and security controls using Azure Firewall Premium and private endpoint networking.

- Established security readiness for bug bounty program enrollment through dependency/code scanning, secret scanning, WAF deployments, and vulnerability assessments.
- Architected IoT Hub solutions for tens of thousands of devices, enabling secure onboarding via DPS and scalable telemetry ingestion into medallion data lake pipelines.

2021–2022   *Software Developer/Contractor for Senior Place* (Remote)

Built a multi-tenant web application for managing assisted living placements.

- Developed front-end React interface
- Implemented Typescript RESTful back-end (migrating to GraphQL)
- Created services for importing and maintaining state data
- Authored CloudFormation templates for service creation
- Automated CI/CD with GitHub Actions
- Integrated AWS services for queues and email

2021   *Software Developer for Starline Industries* (Buffalo, NY)

Contributed to intranet ERP system, customer-facing website, and custom SaaS solution for managing promotional products using PHP and Laravel.

2018–2021   *Software Developer/Contractor for Providence* (Remote)

Delivered solutions for remote visits with healthcare professionals.

- Deployed services to Kubernetes using Helm charts
- Developed RESTful APIs
- Built Kubernetes sidecar for dynamic configuration management
- Integrated AWS SQS and RDS into production workflows

2018   *Software Developer/Contractor for NICCSS – Network of Inner City Community Services Society (Non-profit)* (Remote)

- Collaborated with client to develop specifications
- Built full internal web application for managing customer applications and loans
- Delivered customer-facing application for loan services

2017   *Contractor at Microsoft – Azure CAT Team* (Redmond, WA)

Partnered with Azure's Customer Advisory Team to deliver customer-facing solutions and improve Azure services.

- Validated Azure Stack builds through performance testing
- Managed CI/CD with Jenkins, Concourse, Vault, and Packer
- Developed benchmarking software for Big Data solutions
- Deployed and managed Kubernetes clusters in Azure
- Shared discoveries with Azure product teams to enhance development practices

2015–2017   *Senior Software Engineer for HPE/SUSE Enterprise* (Seattle, WA)

Built the Helion Code-Engine CI/CD system for deploying applications to Helion Cloud Foundry.

- Developed REST API for managing projects and pipelines
- Created Concourse CI resources and tasks for build/test/deploy/notifications
- Built HA Kubernetes services with MySQL and Concourse CI Docker images

2013–2015   *Software Developer for Starline Industries* (Buffalo, NY)

Lead developer on ERP, customer-facing sales website, and industry integration platform.

- Created a unified interface for viewing and printing Crystal Reports and XtraReports

- Built a task scheduling system for automated report distribution

2006–2013   *Software Developer for Safran* (Everett, WA)

- Created internal applications to manage 2D wire bundle drawings, including revisioning and file storage
- Designed and developed lifecycle management applications used in production of wire bundles for the **Boeing 787**, **Airbus A350**, and other major aerospace programs
- Scaled team from 1 (self) to 9+ developers across multiple countries, leading technical direction and delivery

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