

EDUCATION

Cameron University (B.S, Magna Cum Laude, Computer Science)	Fall 2010 – July 2014
Cameron University (A.S, Magna Cum Laude, Information Technology)	Fall 2012 – June 2014

KEY TECHNICAL SKILLS

- Distributed systems engineering with Erlang/OTP and Elixir (Phoenix, LiveView, Ash Framework) for high-throughput, fault-tolerant backend services.
- Networking protocols and systems: HTTP, WebSockets, DNS, SMTP, and proxying.
- Designing and documenting REST APIs; integrating third-party APIs in production systems.
- Elasticsearch/OpenSearch analytics pipelines; Apache Spark (Scala, AWS EMR) data pipelines aggregating Cassandra raw event data into PostgreSQL reporting datasets.
- Cassandra (6-node production cluster, time-series data modeling), PostgreSQL (query optimization and reporting workloads), RabbitMQ (distributed messaging pipelines).
- BEAM performance optimization, relup zero-downtime upgrades, CI/CD pipelines using Jenkins, infrastructure-as-code automation with Ansible.
- AWS infrastructure (EC2, RDS, S3), Linux systems operations, and Fly.io application deployments for personal and side projects.
- Technical leadership: managing and mentoring up to 5 engineers while remaining hands-on in system architecture, backend development, and production operations.

PROFESSIONAL EXPERIENCE

Lead Distributed Systems Engineer	Ionik (formerly VeriAS)	October 2014 – March 2026
<ul style="list-style-type: none">• Lead architect and primary backend engineer for a revenue-critical affiliate marketing platform using Erlang/OTP. The platform supports \$2.5M+ monthly revenue, processes tens of millions of events per day at sustained throughput with significantly higher peak load, powering high-volume click tracking, attribution, and real-time partner reporting.• Architected and built NetAdmin, an internal infrastructure platform written in Elixir (Phoenix + LiveView + Ash Framework) enabling resource lifecycle orchestration, distributed systems monitoring, operational auditability, and cross-system automation.• Designed and maintained REST APIs and internal service integrations supporting high-volume tracking, analytics, and partner platform connectivity.• Designed and operated distributed data and messaging architecture including a 6-node Cassandra production cluster, RabbitMQ event pipelines, and Elasticsearch/OpenSearch analytics infrastructure.• Owned data modeling across Cassandra and PostgreSQL; routinely debug and optimize complex production SQL queries and high-volume transaction paths. Built Elasticsearch reporting for detailed reports and aggregated performance analytics.• Developed Apache Spark (Scala, AWS EMR) data pipelines aggregating Cassandra raw event data into PostgreSQL reporting datasets used for analytics and financial reporting.• Responsible for system reliability, BEAM performance optimization (process load, message queues, bottleneck analysis), release strategy (relup), CI/CD automation, and infrastructure-as-code using Ansible for provisioning and managing production environments.• Led and managed 5 engineers (UI + infrastructure) while remaining hands-on across backend, data architecture, and full-stack feature delivery. Conducted technical interviews and evaluated engineering candidates as part of the hiring process.• Managed cloud and infrastructure operations across AWS (EC2, RDS, S3), domains, and VPS providers; implemented scaling strategies, audits, and reporting that reduced infrastructure operating costs by ~25%.		
Application Programmer	CGI Federal	December 2013 – October 2014
<ul style="list-style-type: none">• Performed detailed source code analysis for enterprise Java/ADA systems.• Developed tooling and assisted with build/release workflows for multi-million SLOC applications.		
In-House Technician	Wichita Online	April 2013 – December 2013
<ul style="list-style-type: none">• Provided in-field, and remote network troubleshooting and wireless equipment deployment (MikroTik, Canopy routers).		
Manager	Outback Steakhouse	November 2011 – April 2013
Computer Science Tutor	Cameron University	August 2012 – December 2013