

Jonathan Camp

Systems Architect & Engineer

About Me

I'm an explorer, a systems architect and engineer. I gather evidence about how systems work, put them under stress, and design and build the next iteration that accounts for what I've learned. This résumé shows systems I've helped to improve, but I'm most at ease in new frontiers of technology where boundaries are unknown and limits haven't been tested. I'm applying for this job because it's not exactly what I've done before. I believe my philosophy will map onto your problem space and I can draw on my experience to collaborate toward a solution. Whether I wear a Platform Engineer hat or a Software Developer hat, these are just tools to organize the system. I'm capable of learning whatever tools best serve the current challenge.

Contact Information

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Skills & Expertise

Core Competencies

Cloud Infrastructure + AWS • Data Engineering + Pipelines • DevOps + SRE • Infrastructure as Code • System Architecture • Security + Compliance

Professional Experience

Platform Engineer at Prallax Consulting

November 2024—Current

Platform engineer working in healthcare technology with FedRAMP Moderate and FIPS compliance requirements. Build and maintain cloud infrastructure, data pipelines, and internal tooling to support secure operations at scale.

- Architected proof-of-concept AI platform integrating Claude with enterprise monitoring via Model Context Protocol bridge pattern. Built serverless infrastructure (Lambda, AppSync, DynamoDB, Bedrock InlineAgent) for autonomous reasoning over Splunk operational data, demonstrating natural language interface for SOC teams. Implemented real-time streaming agent traces, multi-tenant isolation, and complete IaC automation with OpenTofu/Terraform.
- Architected real-time change data capture pipeline using Django signals, Kinesis Firehose, S3, Athena, and dbt. Reduced event volume by 95% through targeted model analysis, significantly reducing operational costs while eliminating production API load. Implemented incremental MERGE on Iceberg tables with DynamoDB-based distributed locking.
- Deployed Apache Superset analytics platform in GovCloud with FIPS compliance. Built custom security manager supporting OAuth, JWT service account, and database authentication. Implemented dynamic role provisioning from Keycloak groups with batch processing. Solved FIPS MD5 restrictions through layered fallbacks. Provisioned infrastructure via Terraform including auto-scaling ECS Fargate, encrypted Aurora PostgreSQL, automated secret rotation, and CloudWatch observability.
- Replaced manual reporting workflows with automated metrics collection platform. Built full stack solution using Pocketbase, React, and Kinesis pipelines connected to Superset dashboards, eliminating external contractor dependency.
- Developed web-based label printing system to replace Access database that couldn't deploy to GFE environments. Built with Pocketbase, Golang, and React including SSO integration, audit history, graceful degradation, and optimized label layouts using constraint-based algorithms.
- Manage Keycloak SSO infrastructure with custom provisioning logic for downstream systems. Refactored dependency management from checked-in artifacts to GitLab Maven registry for GitOps-friendly workflows.
- Design all infrastructure with Terraform following distributed systems principles: cost optimization through auto-scaling and right-sized instances, fault tolerance via load balancers and scaling groups, and operational simplicity through appropriate tool selection.
- Integrate AI tools (Claude, AWS Bedrock) into development workflow to accelerate implementation while maintaining quality through systematic code review, testing, and validation. Use AI for rapid prototyping, documentation generation, and debugging assistance, treating outputs as starting points requiring critical evaluation rather than final solutions.

Senior Software Developer at Revcontent

September 2019—November 2024

Cross-functional developer working across distributed cloud infrastructure to drive reliability, cost optimization, and feature development at scale.

- Led migration from legacy Java monolith to microservices architecture using Terraform, Fargate, App Mesh, and Golang. Incrementally extracted services until full monolith deprecation, reducing cloud costs by over 50%.
- Modernized legacy PHP UI by implementing React microfrontends via Module Federation, enabling parallel feature development without monolith coupling.
- Built logging infrastructure for event collection into Snowflake with Looker analytics layer, enabling business-wide data analysis and reporting.
- Migrated data projections processing from batch to event-driven architecture, reducing processing time and operational complexity.
- Developed client-facing dashboard using React, AWS Amplify, and Cognito for custom functionality access.
- Migrated development environments from provisioned EC2 instances to Cloud9-based Docker environments with VSCode Remote access, reducing costs and improving reproducibility.
- Converted legacy infrastructure to Infrastructure as Code using CloudFormation and Terraform.

Senior Software Developer at Sylint

September 2018—September 2019

Software developer focused on security monitoring systems and incident response in a managed security services environment.

- Architected distributed, event-driven security monitoring system ingesting reports and data into actionable dashboards. Built with Docker on Azure, AD integration, ASP.NET MVC Core, Angular 7, Solr, and SQL Server.
- Maintained and upgraded legacy PHP/Laravel platform including major version migration from PHP 5 to 7.
- Conducted forensic analysis of client security breaches, malware attacks, and vulnerabilities. Performed root cause analysis, remediation, and reporting.
- Provided technical research and analysis supporting expert witness testimony in intellectual property litigation.

Lead Engineer at **Adrizer**

August 2016—September 2018

Lead engineer for team of 5 building serverless advertising automation platform handling \$50k–\$100k in daily ad spend. Drove technical architecture decisions and infrastructure strategy while contributing to business optimization.

- Re-architected infrastructure from Storm cluster to serverless AWS stack (Lambda, API Gateway, Step Functions, DynamoDB, CloudFormation), saving thousands monthly in operational costs while improving scalability and reliability.
- Built time-series regression model for automated bid price optimization, capitalizing on off-peak pricing opportunities to improve campaign performance.
- Implemented immutable infrastructure using CloudFormation with Secrets Manager integration and CircleCI deployment automation, enabling identical staging/QA/production environments.
- Developed monitoring and alerting system targeting business-critical pain points, preventing recurring operational issues.
- Performed security hardening through penetration testing and architectural remediation, closing identified attack vectors.
- Analyzed traffic patterns to identify and block invalid traffic sources, recovering costs through refund claims.
- Extended Ruby on Rails + Angular platform with new features, learning Ruby ecosystem to maintain legacy system while building new serverless components.
- Provided 24/7 operational support with root cause analysis and systematic prevention of recurring issues.

Senior Software Developer at **Ned Davis Research**

January 2013—August 2016

Software developer supporting financial analysis platform built on domain-specific language for quantitative research. Worked with Java, Groovy, Spring Framework, RESTful APIs, JavaScript, and automated testing.

- Replaced outsourced PDF report generation system with in-house Java API + Angular frontend + D3 visualization solution, saving tens of thousands annually. Maintained page-for-page parity while adding web access and interactive features.
- Championed and implemented Dynatrace APM across distributed architecture after identifying observability gaps. Created proof of concept, secured buy-in, and trained team on investigative workflows.
- Introduced CI/CD practices by implementing Jenkins pipelines, formalizing development process with repeatable, testable releases.
- Refactored product architecture to enable package-based sales model versus all-or-nothing licensing approach.
- Built real-time dashboard integrating Interactive Brokers TWS API for signal subscription and visualization.
- Led migration from custom Tomcat CMS to Liferay, streamlining publication workflow and enabling non-technical content administration.
- Advocated for modern architecture patterns, demonstrating microservices with REST APIs in greenfield projects versus legacy RPC approach.
- Collaborated with quantitative analysts to implement mathematical models using appropriate software design patterns.

Software Developer at McKesson Automation

November 2011—December 2012

previously - Product Support Specialist II August 2008—November 2011

Agile software developer working on medical automation systems in C#, ASP.NET, VB.NET, and Java. Implemented compliance changes across product line and contributed to service-oriented architecture development.

- Built medication delivery network platform using ASP.NET MVC with service-oriented architecture and domain-driven design. Implemented comprehensive testing strategy (unit, functional, integration, performance, end-to-end).
- Maintained and supported diverse medical systems software across product portfolio.

As Product Support Specialist: Diagnosed and resolved complex issues in medical automation systems across multiple languages and paradigms. Performed root cause analysis, developed reproduction test cases, and conducted on-site system monitoring to resolve production issues.

PC Technician at Drexel University – iSchool

April 2005—February 2008

Maintained desktops, servers, printers, network, AV equipment for faculty and staff. Provided administration of network and system services e.g. Exchange, Blackboard, Lotus Notes, Active Directory, Domain Controllers. Supervised and trained 10 person support team.

Achievements

B.S. in Computer Engineering

 Drexel University – College of Engineering, Pennoni Honors College – 2008

AWS Certified Developer – Associate

 AWS – 2017