RYAN WILSON

Des Moines, IA (open to remote)
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SUMMARY

Software, security, and AI engineer with a broad technical background ranging from infrastructure administration, systems and application security, to cloud and AI. Experience building full-stack applications, AI agent frameworks, and secure, scalable infrastructure, alongside risk management, threat mitigation, and enterprise network architecture. I've lived up and down the stack, and my work shows it. Currently pursuing a B.S. in Cybersecurity and Information Assurance with a focus on AI security.

EDUCATION

Western Governors University
B.S. Cybersecurity and Information Assurance
In Progress – Started January 2026

Des Moines Area Community College
A.A.S. Information Technology – Network Administration
Graduated May 2016

TECHNICAL SKILLS

Software Development:
Rust, Go, C, C#, Python, PHP, TypeScript / JavaScript, React, Node.js, Next.js, Nest.js, Tanstack, Astro, Svelte, Vue/Nuxt, Laravel, REST APIs, HTMX, Alpine, GraphQL, Postgres

AI & Agent Systems:
LLM API integration, modular/portable architecture across environments, auth-gated multi-tenant deployment, high-throughput AI request handling, LangChain, LangGraph, LangSmith, PyTorch

Cloud & DevOps:
AWS, Azure, GCP, Terraform, Ansible, Docker, Kubernetes, VPS, IAM, VPC, CloudFront, CloudWatch, CI/CD, AWS Lambda, EC2, S3, Bedrock

Infrastructure:
Enterprise network architecture, Linux Administration, Hybrid cloud infrastructure, Infrastructure automation, high availability, observability, Infrastructure as Code

Networking:
TCP/IP, VLANs, BGP, OSPF, VPNs, DNS, DHCP, Cisco, Juniper, Arista, Fortinet, pfSense, Aruba, Riverbed Steelhead, Talari SD-WAN

Security:
OWASP, Network segmentation (+ DMZ, honeypots), packet analysis, vulnerability assessment, threat detection, incident response, Fortinet NGFW, Cisco Firepower, CrowdStrike Falcon, Snort, Splunk, OpenVAS, Wireshark, Nmap, Burp Suite, Kismet, Sliver C2, Cobalt Strike, Zeek, Ossec, NGIPS/NIPS

Systems:
Linux, SELinux, System hardening, VMware, Proxmox, Hyper-V, Windows Server, Active Directory, 389-DS

PROFESSIONAL EXPERIENCE

Founding AI / Software Engineer
AGIS Global | May 2026 – Jul 2026

- Designed and built the company's entire technology stack from the ground up, including enterprise networking, Linux infrastructure, hybrid AWS cloud, DevOps, security, internal, and production software developed in Rust, Go, TypeScript, and C#
- Built a custom Rust based orchestration layer for zero-copy IPC, eliminating Python GIL bottlenecks for high-throughput AI request handling
- Designed and shipped a modular, model-agnostic AI agent framework, portable across environments with interchangeable LLM backends, deployed live with domain-restricted access control via Clerk
- Developed business-critical internal platforms including an employee management portal & timeclock, ITSM platform, infrastructure management console, and customer-facing web applications
- Implemented Infrastructure as Code using Ansible for bare-metal provisioning and Terraform for cloud failover on AWS
- Deployed self-hosted observability stack via Grafana, Prometheus, Loki, and Jaeger alongside CI/CD via self-hosted GitLab
- Architected and deployed a multi-node bare-metal NVIDIA DGX Spark GPU cluster with a dedicated 400G RoCE RDMA fabric via Arista, purpose-built for large-scale AI inference
- Designed full enterprise network topology across Juniper BGP border routing and perimeter firewall, and Cisco Nexus spine/leaf switching. Production-grade from day one
- Defined and enforced security posture across IAM, endpoint detection, and secret management
- Onboarded and led incoming engineering hires, establishing team workflows, repository standards, security protocols, and access controls as the organization scaled

Freelance Developer

ryanwilson.io | Nov 2024 – Present

- Provided full-stack web development and consulting services for small business clients, specializing in modern application development, branding, and tailored websites
- Built responsive web applications using React/Next.js, React Native, Vue/Nuxt, SvelteKit, and Laravel, along with WordPress sites for small business clients
- Engineered type-safe APIs with Node.js/Express, tRPC, GraphQL, gRPC, and Supabase
- Managed databases including PostgreSQL, MongoDB, MariaDB, and TimescaleDB, using Prisma ORM
- Deployed applications on AWS (RDS, Lightsail, Cognito), Vercel, Heroku, Linode, Netlify, and DigitalOcean
- Implemented authentication, CI/CD, CDN distribution, and real-time caching with Redis
- Utilized project-specific CMS systems including headless WordPress, Sanity.io, Strapi, and Contentful
- Managed full project lifecycle including continuous client prospecting, onboarding, architecture, deployment, and support

Systems Engineer

DH Pace | Jul 2023 – Aug 2024

- Administered VMware environments including vCenter, ESXi hosts, VM provisioning, and VM management across hybrid environments
- Managed AWS infrastructure including S3, VPC, and IAM policies
- Configured and maintained Cisco Meraki cloud-managed networks, including SD-WAN solutions
- Deployed, configured, and maintained Fortinet firewalls and VPNs with policy configuration and IPSEC tunneling
- Supported Cisco and Aruba networking equipment across enterprise locations
- Implemented CrowdStrike Falcon endpoint protection across enterprise endpoints

Freelance Consultant

RYIO Consulting | Mar 2022 – Jun 2023

- Provided comprehensive IT consulting services and delivered Tier 1–3 help desk support for small to mid-sized businesses
- Managed and maintained network infrastructure, working primarily with Cisco, Juniper, and Aruba equipment
- Configured advanced network features including VLAN segmentation, routing (OSPF, EIGRP, BGP), and QoS policies
- Administered Microsoft Azure and AWS environments; deployed SentinelOne and various SIEM solutions
- Managed Windows Server and Linux environments, including Active Directory, Group Policy, and automated backups

Systems Administrator

BlueAlly | Oct 2019 – Dec 2021

- Provided managed IT support and infrastructure management for multiple client environments, maintaining strict SLAs
- Monitored client infrastructure using RMM tools (LogicMonitor) and responded to alerts proactively
- Implemented and managed diverse network hardware, including L2/L3 Cisco switches, Cisco routers, Cisco Meraki, Juniper, Aruba, Palo Alto, ASA, and Firepower NGFW
- Deployed and managed Riverbed Steelheads for increased network performance and content delivery across the WAN
- Deployed and configured Talari SD-WAN solutions
- Administered Linux servers, including package management, service configuration, and shell scripting
- VMware administration
- Citrix XenDesktop administration
- Veeam backup and disaster recovery

Help Desk Specialist (Contract)

Casey's General Stores | Jul 2019 – Oct 2019

- Contributed to the rollout and deployment of the new online ordering system across all Midwest retail locations
- Assisted with incident triage, ticket resolution, and remote troubleshooting
- Provided technical support for store systems and retail infrastructure
- Worked with deployment teams during rollout of new ordering systems

Datacenter Technician (Contract)

Microsoft | Nov 2017 – Dec 2018

- Diagnosed and triaged server and hardware failures across datacenter clusters
- Performed Cisco Nexus switch configuration and network troubleshooting
- Assisted with rack deployments and server cluster provisioning
- Maintained compliance with strict Microsoft SLAs for outages and hardware failures

PROJECTS

BitSentry – Security Assessment Platform

Personal Project | 2025 – Present

- Released a modular CLI-based security assessment suite for attack-surface discovery, vulnerability scanning, and reporting workflows
- Built and integrated multiple products including BitScope (asset discovery), BitProbe (web vulnerability scanning), BitReport (report aggregation), and BitAI (verification tooling)
- Developed plugin-based scanning pipelines for web application analysis, TLS misconfiguration detection, exposed service discovery, and CVE identification
- Implemented automated crawl and attack-surface enumeration workflows with scoped target handling and service fingerprinting
- Designed CI/CD- and Docker-compatible execution paths for portable security testing and automation workflows
- Built multi-format reporting outputs (JSON, Markdown, PDF, HTML) for remediation tracking and operational analysis
- Structured the platform around extensible orchestration to support future offensive security and monitoring modules

CERTIFICATIONS

- ISC2 Certified in Cybersecurity (CC)
- LogicMonitor Certified Professional (Expired)
- Datacamp AI Fundamentals
- Riverbed RCPE Associate (Expired)
- Fortinet NSE3 (Expired)