

Randy Ryan Shell

Location: Valparaiso, Indiana, United States

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Professional Summary

Accomplished Cybersecurity Researcher and Technology Professional with over two decades of extensive industry experience. Proven expertise spanning advanced data analysis, defensive security strategies, AI model training, patent research, and technical education. Adept at managing complex workflows, troubleshooting hardware and software architecture, and translating intricate technical concepts into actionable, high-quality solutions. Combines deep technical proficiency in cybersecurity with a robust background in AI engineering support, expert witness consulting, and cross-functional team collaboration.

Core Competencies & Skills

- **Cybersecurity & Infrastructure:** Vulnerability Analysis, Threat Mitigation, Penetration Testing, Malware Analysis, Incident Response, Intrusion Detection Systems.
- **Artificial Intelligence & Engineering:** Generative AI System Refinement, Machine Learning (Python), Workflow Automation, Prompt Engineering, Object Recognition, Ethical Governance.
- **Technical Research & Legal Support:** Prior Art Documentation, Patentability Assessment, Freedom-to-Operate (FTO) Analysis, Infringement Risk Evaluation.
- **Technical Operations & Support:** Network Configuration (LAN/WAN), Hardware Deployment & Diagnostics, Remote Technical Systems Management, Identity & Access Management.
- **Instruction & Leadership:** Train the Trainer, Technical Content Creation, Classroom Management, Cross-Functional Technical Workshop Facilitation.

Professional Experience

Permeda Cyber Research | United States

Cyber Security Researcher (October 2014 – Present)

- Investigate and analyze emerging security threats, attack patterns, and vulnerabilities to proactively mitigate risk across digital infrastructure.
- Design and execute comprehensive defensive technical strategies to preserve the security and integrity of critical networks and software.
- Utilize advanced diagnostic tools and methodologies to conduct penetration testing and perform malware analysis.
- Collaborate with engineering and IT teams to systematically implement security measures and present complex research findings to stakeholders.
- Deliver training sessions and workshops focused on cybersecurity awareness and secure computing best practices.
- Participate in security incident response operations, providing detailed incident documentation and remediation protocols.

Contract Recruiter (March 2025 – Present)

- Manage end-to-end recruitment pipelines focused on sourcing, vetting, and training IT and security professionals.

micro1 | Remote

AI Trainer (May 2026 – Present)

- Train advanced artificial intelligence systems to recognize diverse objects and execute complex tasks, optimizing overall operational capabilities.
- Apply specialized software applications and object recognition techniques to refine AI understanding of complex human instructions.
- Collaborate across cross-functional engineering teams to iterate on training methodologies and enhance model output performance.

Express Search | Remote

Contract Patent Researcher (March 2026 – Present)

- Conduct exhaustive prior art investigations across international patent databases (including USPTO and EPO) to evaluate the novelty and patentability of emerging technical designs.
- Evaluate technical literature and existing patents to deliver comprehensive Freedom-to-Operate (FTO) and patent infringement risk assessments.
- Author detailed, actionable landscape reports to support legal counsel, patent attorneys, and corporate R&D teams during patent prosecution and litigation.

Turing | Remote

Subject Matter Expert: Cyber Security (March 2026 – Present)

- Develop advanced-level, technically rigorous content and educational materials across engineering and cybersecurity domains.
- Solve complex, entry-level engineering problems by authoring thorough, step-by-step analytical explanations.
- Design visual models, diagrams, and simulations to accompany and support deep textual explanations.
- Conduct stringent quality assurance reviews to ensure technical accuracy and strict alignment with industry and academic standards.
- Partner with development teams to enhance the training outputs of AI models within highly technical domains.

Alignerr | Remote

Voice Actor & AI Implementer (January 2026 – Present)

- Interpret, analyze, and deliver professional vocal scripts utilizing tailored pitch, accent, and tone variations within a dedicated studio environment.
- Design, evaluate, and deploy generative AI applications, automated agents, and intelligent Q&A structures directly into daily operational workflows.
- Translate complex technical AI benchmarks into clear, executive-ready narrative reports demonstrating ROI and mission alignment.
- Construct lightweight AI-driven automation systems to identify and resolve procedural bottlenecks across operations, marketing, and customer support.
- Facilitate training workshops regarding optimal prompt engineering methodologies, tool utilization, and ethical AI deployment guidelines.

- Establish and monitor ethical governance standards to detect bias, ensure data privacy compliance, and verify responsible use of AI tools.

Outlier | United States

Generative AI Engineer (October 2022 – Present)

- Advance natural language processing technology through innovative design, training data optimization, and specialized AI model refinement.

Jaid Technical Consulting | United States

Field Services Engineer (December 2025 – June 2026)

- Provided hands-on, on-site technical support and infrastructure provisioning for clients outside centralized facilities.
- Installed, configured, and maintained servers, routers, wireless access points, network printers, and office technology suites.
- Diagnosed and resolved hardware faults, software defects, LAN/WAN issues, and physical layer network cabling errors.

INJOGATE Technological Services LLC | United States

Field Services Engineer (December 2024 – June 2026)

- Traveled across client service sites to demonstrate, provision, deploy, and repair scientific instruments and computerized security systems.

Kelly Education | United States

Substitute Teacher (October 2024 – August 2025)

- Executed structured technical and academic lesson plans, adapting rapidly to diverse subjects and maintaining strict instructional continuity.
- Managed student groups, established behavioral standards, and minimized classroom disruptions to foster orderly learning environments.
- Enforced campus safety protocols, monitored student transit, and completed analytical daily progress logs for administrative review.

TELUS | Remote

Content Reviewer (March 2023 – February 2024)

- Evaluated web content, search engine results, and textual data sets to audit accuracy, technical quality, and user relevance.
- Furnished detailed analytical feedback loops used to enhance user experience metrics and train machine learning models under strict quality quotas.

Amazon Web Services (AWS) | United States

Trust and Safety Specialist (March 2023 – July 2023)

- Investigated and triaged potential infrastructure abuse metrics, coordinating directly with cloud customers to halt unauthorized actions.
- Classified incoming threat intelligence reports, executing swift mitigation strategies to secure AWS infrastructure and external third parties.
- Managed and resolved engineering level customer security issues, including email deliverability, network spam, port scanning, and Denial of Service (DoS) events.
- Conducted deep root-cause analysis on structural system failures, delivering consultative risk briefs to engineering and development stakeholders.

- Authored and maintained internal technical reference manuals and knowledge bases used by global support operations.

Cloud Support Engineer Apprentice (June 2022 – March 2023)

- Acquired deep practical knowledge in cloud infrastructure management, network architecture optimization, and remote enterprise support workflows.

Yoh, A Day & Zimmermann Company | Remote

Information Technology Support Analyst (December 2021 – March 2022)

- Identified, diagnosed, and resolved tier-1/2 technical infrastructure concerns for remote users by synthesizing knowledge-base documentation.
- Rendered live technical support via inbound customer communication channels and secure remote-control software systems.
- Troubleshoot Windows operating system bugs, POS hardware nodes, enterprise multi-function printers, and localized network connectivity faults.

Netfor, Inc. | United States

Technical Support Specialist (June 2020 – May 2021)

- Delivered technical support and troubleshooting solutions regarding point-of-sale systems, hardware devices, and custom software stacks.
- Logged detailed tickets outlining technical problems, customer histories, system diagnostics, and resolutions.

Support.com | Remote

Remote Services Technician (March 2019 – June 2020)

- Diagnosed and repaired PC, macOS, and peripheral device anomalies remotely using secure tools such as TeamViewer and AnyDesk.
- Deployed software applications, managed system patch updates, configured data backup solutions, and audited endpoint security setups.
- Utilized enterprise ticketing software (Jira, Zendesk) to document configuration changes, operational resolutions, and network events.
- Administered user accounts, provisioned system access permissions, and audited security profiles via localized administration dashboards.

United States Air Force | Spangdahlem AB, Germany

Journeyman Electrician (January 2012 – June 2014)

- Inspected, maintained, and repaired specialized electrical infrastructure, including fire protection units, intrusion detection mechanisms, airfield lighting systems, and comprehensive high/low-voltage distribution systems (overhead and underground).
- Served as a Certified Instructor in CPR and First Aid.
- Maintained full technical proficiency in compliance with OSHA regulations, National Electrical Code (NEC) standards, and specialized high-risk rescue procedures (pole top, aerial lift, manhole rescue).

Education

OSHAcademy

OSHA Professional

Jun 2026 – Jun 2026

Grade: 3.69

Occupational Safety and Health Professional (132 Hrs)
Occupational Safety and Health Manager (48 Hrs)
Occupational Safety and Health Specialist (44 Hrs)
Occupational Safety and Health Supervisor (36 Hrs)
Occupational Safety and Health Train The Trainer (36 Hrs)
Safety Committee Chair (36 Hrs)
Safety Committee Member (32 Hrs)
General Industry Safety and Health (10 and 30 Hrs)

INCO Academy

Green Pathways Feb 2026 – Mar 2026

University of Phoenix

Bachelor of Science - Computer Science, Computer Information Technology: Cyber Security
2014 – 2019

Air University

Graduated, Electrical and Mechanical Engineering 2012 – 2014

University of Maryland Global Campus

Portage High School

High School, Core 40 With Technical Honors 2005 – 2009

Indiana University Bloomington

Secondary Education and Teaching Jun 2026 – Present

Purdue University

Cybersecurity Jun 2026 – Present

University of West Florida

Cybersecurity Certificate (Online) Industrial Control Systems Security,
Jun 2026 – Present

Certifications & Training

- [Certified Lean Six Sigma Green Belt](#)
[Star Global College of Workforce Development](#)
Issued Jun 2026
Credential ID 1p3cn36kns
- [Certified Technical Writing Specialist](#)
[Star Global College of Workforce Development](#)
Issued Jun 2026
Credential ID toxzrl4etf

- [Crail Foundations™](#)
[Star Global College of Workforce Development](#)
Issued Jun 2026
Credential ID wiojh0nyo7
- [Green Belt Foundational Course: Lean Six Sigma White Belt Exam Certification](#)
[Star Global College of Workforce Development](#)
Issued Jun 2026
Credential ID unqwwu4rju
- Occupational Safety and Health Professional
[OSHAcademy Safety and Health Training](#)
Issued Jun 2026
Credential ID 1335303
- [Scrum Master 2026](#)
[Star Global College of Workforce Development](#)
Issued Jun 2026
Credential ID 9gskkv1nju
- [Supply Chain Fundamentals](#)
[Star Global College of Workforce Development](#)
Issued Jun 2026
Credential ID 65gblwpv8g
- Certified In Cyber
(ISC)2
Issued May 2026
Credential ID 1094600
- [Machine Learning with Python](#)
IBM
Issued May 2026
Credential ID 1RXY3FA42H9E
- [Foundations of Project Management](#)
Google
Issued Mar 2026
Credential ID GIGWTICFVJH7
- [Google AI Professional](#)
Google
Issued June 2026

- [Google Cybersecurity Specialization](#)
Google
Issued Dec 2023
Credential ID LKEZL2YA3CE8
- [Kreativstorm Hands-on Training Program](#)
[Kreativstorm](#)
Issued Oct 2023
Credential ID bd1ab993-576e-42e6-ad00-f68203686d2f
- [IBM Cybersecurity Analyst Specialization](#)
IBM
Issued Feb 2023
Credential ID 6QKRQR7CD5Y9
- [Google IT Support Specialization](#)
[Coursera](#)
Issued Oct 2021
Credential ID 643GH362X94R
- Python Certification
[Mimo](#)
Issued Oct 2021
- SQL Certification
[Mimo](#)
Issued Oct 2021
- [System Administration and IT Infrastructure Services](#)
[Coursera](#)
Issued Oct 2021
Credential ID HMYTARCSADE8
- Web Development Course Certification
[Mimo](#)
Issued Oct 2021
- [Technical Support Fundamentals](#)
[Coursera](#)
Issued Aug 2021
Credential ID PHBXMP5K9QHT

- Certificate of Technical Achievement
Porter County Career and Technical Education
Issued May 2009
- Security +
[CompTIA](#)
Issued Nov 2021 Expires Aug 2034
Credential ID COMP001021603373
- [CompTIA A+](#)
[CompTIA](#)
Issued Feb 2023 Expires Feb 2026
Credential ID F866HH4532VE10SJ 
- Linux+
[CompTIA](#)
Issued Aug 2022 Expires Aug 2025
- Certified Ethical Hacker (CEH)
[EC-Council](#)
Issued Dec 2021 Expires Dec 2024
Credential ID ECC5672140893

Languages

- **English:** Professional Working Proficiency
- **Spanish:** Professional Working Proficiency
- **French:** Professional Working Proficiency
- **Italian:** Limited Working Proficiency
- **Japanese:** Elementary Proficiency