Raymond Yang

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Experience

Staff Security Engineer March 2025 – Aug. 2025
CVS Health *Remote (Contract)*
- Developed a Rust prototype performing ingestion endpoint simulation (Splunk, Crowdstrike), OCSF normalization, and inline detection, designed to significantly reduce load on the downstream engine and resolve testing bottlenecks
- Indentified unsustainable costs in the proposed AWS Flink architecture and independently built a production-grade Terraform alternative with EKS/Karpenter, projecting a 50% reduction in compute costs
- Collaborated with senior to principal level engineers to define core requirements and validate the architecture on various system designs, ensuring they addressed key operational pain points

Contract Employee March 2025 – Aug. 2025
Colossus Technologies Group *Remote*
- Worked as a Staff Security Engineer at CVS Health (6 month full-time contract)

DevOps Engineer March 2022 – Present
Mezzanotte Labs *Remote*
- Oversaw all company infrastructure, implementing IaC that reduced provisioning time by 60%, lowered deployment time by 40%, and cut operational costs by 25%
- Collaborated directly with the lead engineer to architect and strategize products, resulting in a 30% performance improvement and a 65% increase in system scalability
- Deployed Kubernetes to support a multi-node implementation of an in-house Parquet-like database query utility, achieving a 25% improvement in query response times

Software Engineer Intern Sep. 2020 – Nov. 2021
Blackbot Security *Remote*
- Implemented multiple features for an in-house C2 framework in Python
- Constructed high-quality test cases based on the MITRE ATT&CK Framework to the Atomic Red Team project for more than 20,000 users (T1560.002, T1486, T1059.006, T1053.006)

Projects

High-Volume Log Ingestion Service | *Terraform, Rust, AWS* July 2024 – July 2024
- Spearheaded a Terraform project to transform a high-volume in-house Log Ingestion Service from a Rust HTTP server to an AWS stack (Route 53, ALB, ACM, S3, AWS Lambda) using Cargo Lambda, reducing costs by 50%

Vulnerability Management Workflow | *Terraform, Python* Nov. 2022 – Nov. 2022
- Designed and implemented a vulnerability management workflow using Python and Terraform that automated the process of identifying, reporting, and remediating security vulnerabilities, preventing over 95% of potential exploits

Technical Skills

Languages: Rust, Python, HCL, Bash, Kotlin, LaTeX, Regex, HTML/CSS, SQL, Typescript
Libraries/Frameworks: Actix Web, Flask, Cargo Lambda, Next.js, Tailwind CSS, DaisyUI, React, OCSF
Technologies: Terraform, AWS, Kubernetes, Puppet, Docker, Elasticsearch, Git, Github Actions, SQLite, PostgreSQL
Skills: Systems Design, CI/CD, Linux System Administration, Networking, Detection Engineering, ETL, UI/UX Design

Education

University Of Illinois Urbana-Champaign Urbana, IL
Bachelor of Science in Computer Science + Linguistics *Aug. 2024 – Present*
- Infrastructure backend developer for the largest CS organization at UIUC
- Responsible for architecting and overseeing entire backend for CS124 Honors project

Miscellaneous

Organizations: ACM Infrastructure Committee, ACM SIGPwny, ACM GNU/Linux Users' Group, Skateboarding Illini, GTO Illini
Academics: 4th Place State ACEs Computer Science, CS124 Honors, CS128 Honors
Languages: English, Chinese (Mandarin, Fuzhounese)