

# Raymond Yang

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## EXPERIENCE

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### DevOps Engineer

March 2022 – Present

*Mezzanotte Labs*

*Remote*

- Took on the lead role for all cloud operations
- Responsible for managing all company infrastructure and setting up infrastructure-as-code
- Collaborated directly with lead engineer to architect and strategize products
- Incorporated, presented, and administered development workflow for the entire company to follow, increasing productivity levels drastically across the entire department
- Created and managed CI/CD workflows for all Python and Rust projects using GitHub Actions
- Developed vulnerability management workflow with an automatic ticketing system, preventing numerous exploits
- Utilized Terraform, GitHub Actions, and Puppet to create a workflow that pushed upstream changes to servers that hosting company internal applications
- Deployed Kubernetes for multi-node implementation of in-house Parquet-like database query utility
- Spearheaded a Terraform project to port a high-volume in-house logs ingesting service from a web app to an AWS stack using Route 53, ALB, ACM, S3, and AWS Lambda

### Software Engineer (Internship)

Sep. 2020 – Nov. 2021

*Blackbot Inc.*

*Remote*

- Constructed high-quality test cases to the Atomic Red Team for more than 20,000 users
- Responsible for automating the daily process to backup production code, helping save significant amounts of time
- Implemented multiple features for an in-house post-exploitation framework

## TECHNICAL SKILLS

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**Languages:** Rust, Python, Bash, YAML, Markdown, Latex, HTML, CSS, SQL, Typescript

**Libraries/Frameworks:** Actix Web, Flask, Cargo Lambda, Reqwest,isahc, Rayon, Prompt Toolkit, Pola-rs, Next.js, Tailwind CSS

**Developer Tools:** Terraform, Kubernetes, Puppet, Docker, Elasticsearch, Git, Github Actions, AWS Lambda, AWS S3, AWS Load Balancer, AWS Certificate Manager, AWS Route 53, Neovim, SQLite

**Skills:** Linux, CI/CD, System Administration, Computer Networking, Agile Development, Pentesting, JSON Manipulation

## OPEN-SOURCE PROJECTS

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### **RBust** | *Rust, Git, Markdown*

April 2020 – July 2020

- Utilized the high-performance nature of Rust to create a CLI web-fuzzing tool
- Used the Isahc library to make HEAD requests to desired URL
- Implemented multi-threading using the Rayon library to further increase performance

### **BlackPhish** | *Python, PHP, HTML, Bash*

October 2019 – January 2020

- Developed CLI utility to mimick website and catch POST data by hosting locally
- Utilized Apache2 to host mimicked website
- Used ngrok to create a reverse proxy to the Apache2 server

## EDUCATION

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### **University Of Illinois Urbana-Champaign**

Urbana, IL

*Bachelor of Science in Computer Science + Linguistics*

*Aug. 2024 – Present*

- Infrastructure backend developer for the biggest CS organization at UIUC
- Responsible for architecting and overseeing entire backend for CS124 Honors project

## MISCELLANEOUS

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**Organizations:** ACM Infrastructure Committee, ACM GNU/Linux Users' Group, ACM Natural Language Learning

**Academics:** 4th Place State ACEs Computer Science, CS124 Honors

**Languages:** English, Chinese