

Tianyu (Eric) Zhu

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EDUCATION

Stevens Institute of Technology

Bachelor of Science in Computer Science

Honors: International Scholarship

Hoboken, NJ

Expected May 2028

(Accelerated masters, Co-op)

SKILLS

Programming: Node.JS, Python, Golang, bash, html/css/js, Rust

Systems Administration: NGINX, Docker, Debian, RHEL, postgres, libvirt/kvm, Proxmox, LXC, Grafana, Prometheus, thanos.io, Ansible, Puppet

Computer Networking: bgp, {nf,ip,eb}tables, routerOS, rpki, IRR, RPKI, RTBH, wireguard, OpenVPN, various networking debugging tools

Cybersecurity: Metasploit, nmap, IPS

DevSecOps: Github, Gitlab, sourcehut, Jira, Trello, Webhooks, Twilio

IT: Microsoft Windows, Office suite, macOS, Google Suite, Office360, GPG, PGP, SSH, git, netbox

Languages: Chinese (Mandarin), English

CERTIFICATIONS

- Hurricane Electric IPv6

PROFESSIONAL EXPERIENCES

Inferno Communications, RIPE LIR Services and Colocation

Unpaid Intern (Part of high school senior project)

May 2022 – July 2022

- Created marketing materials for LIR services, contributing to minimum 30% increase in sales count.
- Designed and programmed a responsive website to help people understand our products and how they could use it.
- Debugged networking issues for customers, decreased support response time drastically.
- Planned strategies to increase site SEO.
- Designed a hypervisor suite to increase infrastructure scalability, stability, and user friendliness.

Fosshost, Non-profit hosting provider

Volunteer Deputy-CTO

Oct 2021 - May 2022

- Assisted leading TechOps in maintaining fleet of servers around the world, ensuring service uptime.
- Onboarded and mentored new volunteers, including familiarizing them with the organization and its technologies.
- Designed, deployed, and maintained a monitoring system at scale, maintaining server uptime and improving site reliability.

Volunteer TechOps

Oct 2020 - May 2021

- Deployed and maintained servers around the world at scale to support open source developers and non-profits worldwide.
- Installed and configured support system to minimize support response time.
- Designed and led setting up an identity and access system (RBAC), allowing for better control over accesses.
- Deployed a multi-site global aggregate private network to facilitate secure communications between volunteers and internal infrastructure.

RPG Research, Non-profit Community Organization

Volunteer sysadmin

Jun 2021 - Jun 2022

- Designed and deployed a data-driven monitoring and observability system at scale, maintaining server uptime and improving site reliability. (Grafana, Prometheus, Thanos)
- Re-designed the network to support a new site and increase redundancy.

SporeStack, API-driven VPS hosting.

Volunteer

Jun 2019 - Sep 2019

- Designed system templates with Salt

PROJECTS

EricNet AS206628, Dual Stack Educational Network

Mar 2020 - Present

- Provide reliable free hosting for 50+ students/open-source projects over a cluster of servers.
- Provide transit for 10+ BGP networks.
- Mentor other students in Linux systems administration and BGP.
- Maintained hypervisors with 2+ years of continuous uptime, utilizing RAID arrays and redundant network upstreams.
- Programmed a discord bot in Golang that provide users with an insight of the network via common networking commands i.e. ping, mtr.
- Programmed a status checking website in Golang to minimize incident response time.

ADDITIONAL EXPERIENCES

Stevens Class of 2026 Online Community

Founder & Director

November 2021 – Present

- Lead a team to foster an inclusive and welcoming environment for 650+ students to chat in.
- Address conflicts empathetically and professionally

Yearbook Club

Director of Operations

Sep 2021 – Jun 2022

- Led a student team in crafting an elegant yearbook on a tight schedule while meeting deadlines.
- Communicated regularly with suppliers to address issues, ensuring operation continuity.

REFERENCES - Available upon request