

# Tianyu (Eric) Zhu

eric@ericz.me | NYC | +19292685588 | ericz.me • as206628.net  
linkedin.com/in/tianyu-zhu-577356250 • github.com/ericzty

---

## EDUCATION

### Stevens Institute of Technology

*Bachelor of Science in Computer Science*

**Honors:** Global Scholarship

Hoboken, NJ  
Expected May 2026

---

## SKILLS

**Programming:** Node.JS, Python, Golang, bash, HTML/CSS/JS, Rust

**Systems Administration:** NGINX, Apache 2, Docker, Debian, RHEL, Postgres, libvirt/KVM, Proxmox, LXC, Grafana, Prometheus, Thanos.io, Ansible, Puppet

**Computer Networking:** BGP, Nftables, routerOS, IRR, RPKI, RTBH, WireGuard, OpenVPN, MTR, Netcat

**Cybersecurity:** Metasploit, nmap, IPS

**DevSecOps:** Github, Gitlab, Sourcehut, Jira, Trello, Webhooks, Twilio

**IT:** Microsoft 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*

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 them.
- 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.
- 

## PROJECTS

### EricNet AS206628, Dual Stack Educational Network

Mar 2020 - Present

- Provided reliable free hosting for 50+ students/open-source projects over a cluster of servers.
  - Provided 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.
  - Developed 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