

# Tianyu (Eric) Zhu

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## EDUCATION

**Stevens Institute of Technology** Charles V. Schaefer, Jr. School of Engineering & Science

Hoboken, NJ  
Expected May 2026

*Bachelor of Science in Computer Science*

**Honors:** Global Scholarship

**Coursework:** Data Structures, Discrete Structures

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## SKILLS

**Programming:** Node.JS, Python, Golang, bash, HTML/CSS/JS, Rust, BPF, C++, C, Java, Scheme, various ci/cd tools

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

**Computer Networking & Security:** BGP, Nftables, routerOS, IRR, RPKI, RTBH, WireGuard, OpenVPN, MTR, Netcat, Metasploit, nmap, IPS

**Languages (Fluent):** Chinese (Mandarin), English

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## PROFESSIONAL EXPERIENCES

**Stevens Institute of Technology**, Department of Computer Science

*Undergraduate Research Assistant*

Apr 2023 - Present

- Debugged and modified complex C++ and C codebases to trace shell scripts in order to parallelize shell scripts.

**Fosshost**, Non-profit hosting provider

*Volunteer Deputy-CTO*

Oct 2021 - May 2022

- Assisted leading TechOps in maintaining a 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

- Installed and configured support system to minimize support response time, and Gitlab for collaboration.
- 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.
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## PROJECTS

**EVE**, Golang, Postgres, mTLS, x506, CI/CD, Makefiles, Structured Logging

- A hypervisor suite for mid-scale server hosting deployments, with security and ease of usage in mind.
- Using mTLS to ensure secure connection between agent and main controller over any environment.
- RESTful API for users to control their resources, and for admins to manage users and create new machines.

**AiChan**, Golang, Redis, discordGo, Structured Logging OpenAI

- A fast discord bot that allows users to interact with openAI APIs, with support for GPT-3.5-turbo, GPT-4, and DALL-E.
- Utilizing redis to store conversation cache for fast retrieval of chat context for.
- Enables dynamic prompt engineering via ad-hoc pre-prompting for chat APIs.

**Based Development**, Developer Collective

Apr 2022 - Present

- Orchestrating the development of programming projects among software developers of varying experience.
- Offering resources and mentoring software developers.

**EricNet AS206628**, Dual Stack Educational Network

Mar 2020 - Present

- Provided reliable free hosting for 50+ students/open-source projects over a cluster of servers, and BGP transit for 10+ BGP networks.
  - Developed a status checking website in Golang to minimize incident response time.
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## ADDITIONAL EXPERIENCES

**Blueprint @ Stevens**

*Tech Team: Head of Infrastructure*

May 2023 – Present

**Castle Point Anime Convention**

*Webmaster Team*

Oct 2022 – Present

- Assisted in the designing of the REST API for vendor on-boarding portal.
- Designed the infrastructure and DevOps process for internal projects.

**Stevens Linux User Group**

*Executive Board: Secretary*

Apr 2023 – Present

**Stevens Class of 2026 Online Community**

*Founder & Director*

Nov 2021 – Present

- Lead a team to foster an inclusive and welcoming environment for 700+ students to chat in.
  - Address conflicts empathetically and professionally.
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## REFERENCES - Available upon request