

Mac Chaffee

me@macchaffee.com

he/him

EXPERIENCE

Cloud DevOps SysAdmin @ RENCI Jul '21-Present

- Designed and deployed the largest Kubernetes cluster in the UNC system
- Administrated the cluster using SRE and Platform Engineering practices
- Gathered user feedback and developed a roadmap for the platform
- Achieved 99.997% availability for applications in the cluster
- Saved \$20k/month in cloud costs by leveraging on-prem hardware
- Supported 300+ Linux VMs including a NIST 800-171 environment
- Contributed 70+ pull requests to various open source repos
- Hosted training sessions to teach users about our Kubernetes platform
- Frequently recognized for providing excellent, empathetic support for my users

Software Engineer @ Cisco May '19-Jul '21

- Developed and maintained 5 of our 23 microservices (Python, Golang)
- Administrated several business-critical Kubernetes clusters and Jenkins workers
- Implemented security compliance via ISO-27000, CIS, and internal standards
- Awarded for:
 - Rapidly fixing several production issues
 - Training others in my area of expertise
 - Delivering a new deployment model to our largest customer in 1 month

Software Engineering Intern @ Inmar Jun '18-Aug '18

- Built a scalable and fault-tolerant chat bot that processes rebates
- Learned C#, AWS, Python, Docker, and OpenCV

Software Engineering Co-Op @ Honeywell Jun '16-Dec '17

- Built the data pipeline of a \$100M web app that detects electricity theft
- Learned Python, Django, Kubernetes, Celery, and SciPy

PRIMARY SKILLS

Kubernetes	Python	GitOps	Networking	Logging
Containers	Bash	Agile	Storage	Monitoring
AWS/GCP	Ansible	Security	Linux	SRE

PERSONAL PROJECTS

Home Lab IPv6 + NixOS Oct '22-Jul '23

- Learned NixOS to deploy a blogging site and a Factorio server
- Learned IPv6 and OpenWRT to add dual-stack support to my home network
- Learned systemd sandboxing to contribute a new NixOS module

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Volunteer Hackathon Mentor

'22-'23

- Mentored dozens of students at HackNC and PearlHacks every year

3-Time Hackathon Award Winner

'16-'19

- Built an Android app in that reminds you to use gift cards when near stores (2019)
- Built a “computer aquarium” network monitoring tool in Python (2018)
- Built a Django site to compare political candidates using 3 different APIs (2016)

NCSU Menu Notifier (ncsu-mn.com/about)

Aug '16

- Architected a site to send text notifications about dining hall menus
- Pitched the website to the director of NC State Dining
- Implemented high code coverage, test-driven development, and CI/CD

EDUCATION

North Carolina State University

GPA: 4.0

- Bachelor of Computer Science Class of 2019