

# Amey Shukla

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## EXPERIENCE

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### NetApp

January 2019 – Present

*Part Time Software Engineer*

*Wichita, KS*

- Developed and maintained E-Series Jetty REST API and fixed defects.
- Developed a next generation container execution framework utilizing Kubernetes and Docker to run storage software and corresponding tests with load balancing and highly available topology.
- Developed a Python wrapper for Ansible Tower REST API.
- Developed a resource provisioning framework to provision storage software builds virtually on demand preventing 1000s hours of developer downtime.
- Optimized CI/CD pipelines to reduce execution times by 31 hours by introducing a dependency caching and provisioning layer.

### Wichita State University

August. 2019 – May 2020

*Research Assistant under Dr. Sergio Salinas*

*Wichita, KS*

- Performing research on notions deniability in cryptography and side-channel attacks.
- Pentested a vehicle telemetry device used by a leading agriculture manufacturer.
- Developed parts of an Augmented Reality task guidance tool using Hololens.

### Wichita State University

August 2018 – December 2018

*Teaching Assistant*

*Wichita, KS*

- Courses: Introduction to Programming, Object Oriented Programming.
- Responsibilities: grading assignments, reinforcing material, and tracking lab attendance.

## EDUCATION

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### Wichita State University

Wichita, KS

*Bachelor of Science in Computer Science with 3.34 GPA.*

*Aug. 2017 – May 2021*

## PROJECTS

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### MulCats | C, Perl

- Agentless distributed password cracking wrapper for hashcat.
- Utilized SSH to drop a tiny program with payload to send data and retrieve results.

### Notty | Python, Perl

- A libvirt api and management utility for KVM and LXC.
- Features include creating VMs/containers, restoring snapshots, changing configuration etc.

### mirclpr | Java, Python

- A tiny cipher library wrapper for easy cryptography in Java & Python.
- Wrapper over popular cryptography libraries that aim to reduce common, yet, disastrous cryptography mistakes.

## ADDITIONAL EXPERIENCE AND AWARDS

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### Nation Cyber League, Capture the Flag Competition

- Led a team to top 10 in National Cyber League out of 680 teams and 5220 players.

### Vice President, Wichita State Linux Users Group

- Managed a Linux Users Group with 100+ members.
- Led workshops on Systems Programming, Ansible, and Linux.

## TECHNICAL SKILLS

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**Languages:** Python, C, Perl, C++, Java

**Tools:** Git, Docker, Ansible, Kubernetes, LXC, KVM, ESXI, Unikernels, Mercurial

**Others:** Cryptography