

Nikhil Jha

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Education

University of California, Berkeley

BS IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Berkeley, CA

Jun 2020 – May 2024

Experience

Peloton Interactive, Inc.

ANDROID FIRMWARE ENGINEERING INTERN

- implemented binary/artifact signing workflow
- deployed new services with terraform

New York, NY

Jun 2021 – Aug 2021

Open Computing Facility at UC Berkeley

SITE MANAGER

- technical lead of the organization
- built out a new kubernetes cluster on bare metal from scratch
- migrating 40+ services onto the new Kubernetes cluster
- automated our dependency updates, improved ability to rollback

Berkeley, CA

Jul 2020 – Present

AutoLAB (UC Berkeley Automation Lab)

STUDENT RESEARCHER & SYSADMIN

- maintaining GPU HPC services for AI/ML researchers
- wrote clean declarative devops configuration for distributed machines

Berkeley, CA

Jan 2021 – Present

Selected Projects

Mycelium Kubernetes Operator

A KUBERNETES OPERATOR TO HOST MINECRAFT SERVERS WITH DYNAMIC PROXY CONFIGURATION, MONITORING, AND REDUNDANCY.

Kubernetes, Rust, Kotlin

mycelium.njha.dev

Fedora for PinePhone

A PATCHED KERNEL AND SYSTEM IMAGE FOR RUNNING FEDORA LINUX ON A PINEPHONE.

Linux

github/nikhiljha/pp-fedora-sdsetup

ocf/kubernetes

CUTTING-EDGE KUBERNETES DEPLOYMENT WITH GIT-OPS AND OUR OWN PYTHON 3 INFRASTRUCTURE AS CODE SETUP.

Python 3, ArgoCD, Cilium

github/ocf/kubernetes

Awards

2019 **USACO Platinum**, highest qualifying level for the USA Computing Olympiad

USACO

2016-19 **NEM Bounty**, ~\$200k in multiple awards for open source bug bounties and new ideas

NEM Foundation
Ltd.

Interests

Hi! I'm Nikhil, a generalist interested in a wide variety of technical fields. In particular...

- **Distributed Systems** - New tools like Kubernetes and Ceph are fascinating both in the amount of complexity they create and reduce. I love playing with distributed compute across home computers for personal use, and it only gets more exciting with a real purpose.
- **Information Security** - Turns out writing secure code is really difficult! I enjoy the challenge of being a simulated attacker and finding vulnerabilities, as well as the "solving problems by any means necessary" nature of the field.