# Sachin Iver

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https://sachiniyer.com https://github.com/sachiniyer

#### Education

#### New York University

Bachelors of Science in Computer Science

Sep 2020 — May 2023 Brooklyn, NY

### Experience

NYU High Speed Research Network (HSRN) 02/2021 - 05/2023 Brooklyn, NY Academic Researcher Parallel File System: Deployed an NSF funded 6PB storage PFS (SeaweedFS) for usage internally and externally to the HSRN. Automated Deployment with Ansible Playbooks and Rust CLI. Benchmarked with Bonie++ and IOR. Clients: Implemented API of internal broker service for Bash, and did core development on Python, C++, and JS Audio Conferencing: Created an audio service (Portaudio) in C++ that interfaces with internal broker service. CI/CD: Developed documentation, linting, testing, deployment (DinD with Kaniko) pipelines for the project in Gitlab Mentorship: Leader of the student research arm. Managed and onboarded over 110 students over 4 semesters.

**Amazon Last Mile** 05/2022 — 08/2022 Seattle, WA Software Development Engineering Intern

Data Aggregation Service: Created a full stack service to visualize last mile delivery data. Created a Typescript React frontend with Polaris styling that calls an AWS backend implemented with Java Lambda Functions, API Gateway, S3, and Internal Amazon Services. Used S3 Select and Spark to filter through about 1TB per query.

Hewlett Packard Enterprise (Aruba Networks) 06/2019 — 08/2019 Cloud Intern Estimating Bandwidth: Estimated bandwidth using Auto ARIMA/Prophet and other time series algorithms.

**Sparkup** 09/2022 — 12/2022 Brooklyn, NY Software Development Engineering Intern

**UX Development:** Implemented a new feature in React Native App to link names and phone numbers in transactions

**Dark Forest** 12/2021 — 02/2022 San Jose, CA Graphics Intern

Shader Development: Created a typescript plugin that allows for custom WebGL shaders in the Dark Forest game.

# Projects

K3S Cluster: Created a portable resilient fault-tolerant k3s cluster that networks through a wireguard mesh (headscale) CTF: Built CTF with Docker Compose, Dnsmasq, Postgres, Node MQTT server, Rust/Tide HTTP server and XtermJS Apps Status: Built an API with Rust, Tokio Async, Axum, and Request that proxies status for my self-hosted apps Ansible Batch Runner: Used Rust and Clap to create a cli for batch running and managing Ansible Playbooks Git OpenResty: Created a container that utilized Lua JIT with OpenResty to sync git repos as a git-sync alternative Reactive Sign: Used AWS IOT, Lambda, and API Gateway to build a interactive LED sign through serverless infra Synesthesia Visualizer: Auditory Visual Synthesis Visualizer with librosa, yin, eks, flask, docker, blender, WebVR IP Monitor: Used the QT Framework and built a KDE widget to monitor your public and private IP Addresses.

## Programming Skills

Langs: Typescript, Javascript, Node, C++, C, Rust, Java, Python, (e)Lisp, Bash/Zsh, MDown, JSON, YAML, IATEX Tech: AWS, Linux, Emacs, QT, Docker, k8s/k3s Rancher, Nginx, Traefik, ReactJS, Tailscale, MongoDB, Postgres, ...

#### Certifications

AWS Solutions Architect AWS Cloud Practitioner Stanford Machine Learning by Andrew Ng AWS Fundamentals Specialization

September 2021

August 2021

July 2020

June 2020