# Sachin Iver

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

#### Education

New York University

Bachelors of Science in Computer Science

Brooklyn, NY Exp. May. 2023

Experience

Amazon

Seattle, WA

 $Software\ Development\ Engineer$ 

July 2023 Seattle, WA

Amazon

Software Development Engineering Intern

May 2022 - August 2022

Data Aggregation Service: Created a full stack service to visualize last mile delivery data. Created a Typescript React frontend that calls an AWS API Gateway based backend implemented with Java Lambda Functions, API Gateway, S3, and Internal Amazon Services. Service sifts/caches through up to a TB of data per query with S3 Select. Deployment/Observability Pipeline: The service is built with the AWS Typescript CDK. It is validated with unit and integration testing before being deployed through CodeDeploy and monitored with CloudWatch alarms and SNS.

## NYU Holodeck (Corelink)

Brooklyn, NY

Academic Researcher

February 2021 - Present

Framework Design: Designed a framework for developers to integrate their service with the Corelink network Client Development: Developed and unified Corelink clients (Python, C++, Bash, Browser, and others)

CI/CD: Developed documentation, testing, and linting pipelines for the project in Gitlab

Mentorship: Onboarded and managed 20+ members at Corelink. Created informational documentation and tutorials Audio Video Conferencing: Created an audio/video service in C++ that interfaces with the Corelink network

Sparkup Brooklyn, NY

 $Software\ Development\ Intern$ 

September 2022 - December 2022

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

Dark Forest

San Jose, CA

Graphics Intern

December 2021 - February 2022

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

### Hewlett Packard Enterprise (Aruba Networks)

Santa Clara, CA

Cloud Intern

June 2019 - August 2019

Estimating Bandwidth: Estimated bandwidth using Auto ARIMA and other time series ML algorithms.

#### Projects

Synesthesia Visualizer: Create a visualizer that mimics the experience of Auditory Visual Synthesis with librosa and yin. Utilizes AWS infrastructure (autoscaling ec2 cluster) for compute and WebGL for VR.

**Delivery Service**: Created a web crawling service to notify available delivery slots for Whole Foods, Costco, or Safeway. Used AWS SNS, ECS, and Lambda functions. Created headless Chrome docker containers running Selenium.

Git OpenResty: Created a container that utilized Lua JIT with OpenResty to sync git repos as a git-sync alternative

K3S Cluster: Created a portable resilient fault-tolerant k3s cluster that networks through a wireguard mesh

Personal Website: Deployed a website with self-deployed services k3s and full CI/CD using git-sync.

IP Monitor: Used the QT Framework and built a KDE widget to monitor public and private IP Addresses.

Electronic Trombone: Engineer a trombone midi controller using Arduino with capacitive sensing and pid controllers.

### 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, MySQL, ...

#### Certifications

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

 $September\ 2021$ 

 $August\ 2021$ 

July 2020

June 2020