# Sachin Iver

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

### Education

New York UniversityBrooklyn, NYBachelors of Science in Computer ScienceExp. May. 2023Basis Independent Silicon ValleySan Jose, CAHigh School DiplomaJul. 2020

### Experience

Amazon Seattle, WA

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.

**Personal Website**: Created a website that does real time 3D rendering in pure client side javascript with reactive interactive elements. Deployed with AWS CodeDeploy, API Gateway, CloudFront, IoT, S3, DynamoDB, and SNS.

**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

 $\textbf{Tech} : \text{AWS, Linux, Emacs, QT, Docker, } k8s/k3s \text{ rancher, Nginx, Traefik, ReactJS, Tailscale, MongoDB, MySQL,} \dots \\$ 

### Certifications

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

September 2021

August 2021

July 2020

June 2020