# Sachin Iver

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### **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

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 when there is a delivery slot available for Whole Foods, Costco, or Safeway. Used AWS SNS, ECS, and Lambda functions. Created Docker containers with headless Chrome instances 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 midi controller in the form of a trombone using Arduino to apply standard instrument knowledge to electronic applications with capacitive sensing and pid controllers.

### Programming Skills

Languages: Python, Typescript, Javascript/Node, C++, C, Rust, Java, (e)Lisp, Solidity, Shell Scripting, IATEX

Technologies: AWS, Linux, Emacs, Docker/Kubernetes, ReactJS, Jupyter Notebooks, NGINX, ...

### CERTIFICATIONS

AWS Solutions Architect

AWS Cloud Practitioner

Stanford Machine Learning by Andrew Ng

AWS Fundamentals Specialization

September 2021

August 2021

July 2020

June 2020