Sachin Iver

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

Education

New York University

Exp. May. 2023 Bachelors of Science in Computer Science

Brooklyn, NY

Experience

Amazon

July 2023 Software Development Engineer

Seattle, WA

Amazon

May 2022 - August 2022

Software Development Engineering Intern

Seattle, WA

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)

February 2021 - Present

Academic Researcher

Brooklyn, NY

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

September 2022 - December 2022

Software Development Intern

Brooklyn, NY

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

Dark Forest

December 2021 - February 2022

Graphics Intern

San Jose C.

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

Hewlett Packard Enterprise (Aruba Networks)

June 2019 - August 2019

Cloud Intern

Santa Clara, CA

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
Stanford Machine Learning by Andrew Ng
July 2020
June 2020