Sachin Iver

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

Education

New York University

Sep 2020 - May 2023

Bachelors of Science in Computer Science

Brooklyn, NY

Experience

Amazon Last Mile

Software Development Engineering Intern

May 2022 — August 2022

Seattle, WA

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.

Sparkup

Software Development Engineering Intern

September 2022 — December 2022

Brooklyn, NY

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

Dark Forest

Graphics Intern

December 2021 —February 2022

San Jose, CA

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

NYU High Speed Research Network (HSRN)

Academic Researcher

February 2021 —May 2023

Brooklyn, NY

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.

Hewlett Packard Enterprise (Aruba Networks)

Cloud Intern

June 2019 — August 2019

Santa Clara, CA

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

Projects

Personal Website: Self-deployed a BabylonJS website with kubernetes k3s and full CI/CD using Custom Git Sync

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

Control Display: Created a mass controllable (over 50 simultaneous people) LED matrix. Host built with arduino metro and platformio, USB Serial Buses for communication, and React, Docker, and Material UI for site

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

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

Synesthesia Visualizer: Auditory Visual Synthesis Visualizer with librosa, yin, eks, flask, docker, blender, WebVR

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