Sachin Iver

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

Education

New York University

Bachelors of Science in Computer Science

Sep 2020 — May 2023 Brooklyn, NY

Experience

Amazon Last Mile Software Development Engineering Intern

Seattle, WA 05/2022 — 08/2022

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

Brooklyn, NY 09/2022 — 12/2022

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

Dark Forest Graphics Intern

San Jose, CA 12/2021 — 02/2022

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 Brooklyn, NY 02/2021 — 05/2023 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.

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

Santa Clara, CA 06/2019 — 08/2019

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 through a Rust Lambda function with a custom Megalodon-rs that pushes outage statuses to Mastodon every 5 min 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, Cuda, Kotlin, Perl, Lua, 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