Sachin Iyer

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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

AWS Bedrock Software Development Engineer

Seattle, WA 12/2023 — Present

Bedrock: Creating Generative AI infrastructure for AWS Bedrock. Part of the core team and launched/maintained key features like batch inference, model distillation, and provisioned throughput with AWS-Wide and ReInvent visibility.

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

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.

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.

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.

Projects

K3S Cluster: Created a portable resilient fault-tolerant k3s cluster that networks through a wireguard mesh (headscale) 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 Ansible Batch Runner: Used Rust and Clap to create a cli for batch running and managing Ansible Playbooks Git OpenResty: Created a container that utilized Lua JIT with OpenResty to sync git repos as a git-sync alternative Reactive Sign: Used AWS IOT, Lambda, and API Gateway to build a interactive LED sign through serverless infra 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