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 12/2023 — Present Seattle, WA

Software Development Engineer

Bedrock: Creating Generative AI infrastructure for AWS Bedrock like batch inference and provisioned throughput

Amazon Last Mile 05/2022 — 08/2022 Seattle, WA

Software Development Engineering Intern

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) 06/2019 — 08/2019 — Santa Clara, CA — Cloud Intern Estimating Bandwidth: Estimated bandwidth using Auto ARIMA/Prophet and other time series algorithms.

NYU High Speed Research Network (HSRN) 02/2021 — 05/2023 Brooklyn, NY Academic Researcher 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.

Sparkup 09/2022 — 12/2022 Brooklyn, NY

Software Development Engineering Intern

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

Dark Forest 12/2021 — 02/2022 San Jose, CA

Graphics Intern

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

Projects

Tweet Toxicity: Used DistilBERT, Pytorch, HuggingFace Transformers, Streamlit and AdamW to classify toxicity type Wikipedia Editor: Used Spark, LDA, Cohere, NYU HPC/ SLURM for variance in editor topics with 6TB of dumps Synesthesia Visualizer: Auditory Visual Synthesis Visualizer with librosa, yin, eks, flask, docker, blender, WebVR Book Recommendation Engine: Wrote a recommendation engine to group books based on wikipedia page similarity. CTF: Built CTF with Docker Compose, Dnsmasq, Postgres, Node MQTT server, Rust/Tide HTTP server and XtermJS K3S Cluster: Created a portable resilient fault-tolerant k3s cluster that networks through a wireguard mesh (headscale) Apps Status: Built an API with Rust, Tokio Async, Axum, and Reqwest that proxies status for my self-hosted apps

Programming Skills

Langs: Typescript, Javascript, Node, C++, C, Rust, Java, Python, (e)Lisp, Bash/Zsh, MDown, JSON, YAML, I♣TEX
 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