Sachin Iyer

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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

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.

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.

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.

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.

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 Reqwest 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
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, LaTeX
Tech: AWS, Linux, Emacs, QT, Docker, k8s/k3s Rancher, Nginx, Traefik, ReactJS, Tailscale, MongoDB, Postgres, . . .

Certifications

AWS Solutions Architect	*September 2021*
AWS Cloud Practitioner	*August 2021*
Stanford Machine Learning by Andrew Ng	*July 2020*
AWS Fundamentals Specialization	*June 2020*