# 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 Sembox: A drive with semantic searching over doc types with blip, xsum, whisper, bert, cosine similarity, mui/nextjs 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. K3S Cluster: Created a portable resilient fault-tolerant k3s cluster that networks through a wireguard mesh (headscale) College Rank: Extensible meta-ranking from conference proceedings/best papers, placement rank, paper age, interests

#### 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