

Education

New York University*Bachelors of Science in Computer Science*

Sep 2020 - May 2023

*Brooklyn, NY*Experience

AWS Bedrock*December 2023 — Present*

Software Development Engineer

*Seattle, WA***Bedrock:** Creating Generative AI infrastructure for AWS Bedrock like batch inference and provisioned throughput**Amazon Last Mile***May 2022 — August 2022*

Software Development Engineering Intern

*Seattle, WA***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***September 2022 — December 2022*

Software Development Engineering Intern

*Brooklyn, NY***UX Development:** Implemented a new feature in React Native App to link names and phone numbers in transactions**Dark Forest***December 2021 — February 2022*

Graphics Intern

*San Jose, CA***Shader Development:** Created a typescript plugin that allows for custom WebGL shaders in the Dark Forest game.**NYU High Speed Research Network (HSRN)***February 2021 — May 2023*

Academic Researcher

*Brooklyn, NY***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)***June 2019 — August 2019*

Cloud Intern

*Santa Clara, CA***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, WebVRProgramming Skills

Langs: Typescript, Javascript, Node, C++, C, Rust, Java, Python, (e)Lisp, Bash/Zsh, MDown, JSON, YAML, L^AT_EX**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