

EDUCATION

New York University <i>Bachelors of Science in Computer Science – Final Year</i>	Brooklyn, NY May. 2023
Basis Independent Silicon Valley <i>High School Diploma</i>	San Jose, CA Jul. 2020

EXPERIENCE

Amazon <i>Software Development Engineering Intern</i> Data Aggregation Service: Created a full stack service to visualize last mile delivery data. Created a Typescript React frontend that calls an AWS API Gateway based backend implemented with Java Lambda Functions, API Gateway, S3, and Internal Amazon Services. The CloudFormation service is validated with unit and integration testing before being deployed through CodeDeploy.	Seattle, WA May 2022 – August 2022
NYU Holodeck (Corelink) <i>Academic Researcher</i> Framework Design: Designed a framework for application developers to integrate their service with the Corelink network Client Development: Developed and unified Corelink clients (Python, C++, Bash, Browser, and others) CI/CD: Developed documentation, testing, and linting pipelines for the project in Gitlab Mentorship: Onboarded and managed 20+ members at Corelink. Created informational documentation and tutorials Audio Video Conferencing: Created an audio/video service in C++ that interfaces with the Corelink network	Brooklyn, NY February 2021 – Present
Dark Forest <i>Graphics Intern</i> Shader Development: Implemented a typescript plugin that allows for custom shaders in the Dark Forest game.	San Jose, CA December 2021 – February 2022
Hewlett Packard Enterprise (Aruba Networks) <i>Cloud Intern</i> Estimating Bandwidth: Estimated bandwidth using Auto ARIMA and other time series ML algorithms.	Santa Clara, CA June 2019 – August 2019

PROJECTS

Synesthesia Visualizer: Create a visualizer that mimics the experience of Auditory Visual Synthesis with librosa and yin. Utilizes pure serverless aws infrastructure (autoscaling ec2 cluster) and WebGL for Virtual Reality.
Delivery Service: Created a web crawling service to send a notification when there is a delivery slot available for Whole Foods, Costco, or Safeway. Used AWS SNS, serverless infrastructure with ECS and Lambda Functions, and selenium with headless chrome instances in docker containers.
Personal Website: Created a website that does real time 3D rendering in pure client side javascript with reactive interactive elements. Deployed with AWS CodeDeploy, API Gateway, CloudFront, IoT, S3, DynamoDB, and SNS.
IP Monitor: Used the QT Framework and built a KDE widget to monitor public and private IP Addresses.
Electronic Trombone: Engineer a midi controller in the form of a trombone using Arduino to apply standard instrument knowledge to electronic applications with capacitive sensing and pid controllers.

PROGRAMMING SKILLS

Languages: Python, Javascript/Node, C++, C, Rust, Java, (e)Lisp, HTML/CSS, Solidity, Shell Scripting, L ^A T _E X
Technologies: AWS, Linux, Emacs, Docker/Kubernetes, ReactJS, Jupyter Notebooks, NGINX, ...

CERTIFICATIONS

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