

## EDUCATION

**New York University**  
*Bachelors of Science in Computer Science*  
**Basis Independent Silicon Valley**  
*High School Diploma*

Brooklyn, NY  
*Exp. May. 2023*  
San Jose, CA  
*Jul. 2020*

## EXPERIENCE

**Amazon**  
*Software Development Engineering Intern*

Seattle, WA  
*May 2022 – August 2022*

**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. Service sifts/caches through up to a TB of data per query with S3 Select.  
**Deployment/Observability Pipeline:** The service is built with the AWS Typescript CDK. It is validated with unit and integration testing before being deployed through CodeDeploy and monitored with CloudWatch alarms and SNS.

**NYU Holodeck (Corelink)**  
*Academic Researcher*

Brooklyn, NY  
*February 2021 – Present*

**Framework Design:** Designed a framework for 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

**Sparkup**  
*Software Development Intern*

Brooklyn, NY  
*September 2022 – December 2022*

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

**Dark Forest**  
*Graphics Intern*

San Jose, CA  
*December 2021 – February 2022*

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

**Hewlett Packard Enterprise (Aruba Networks)**  
*Cloud Intern*

Santa Clara, CA  
*June 2019 – August 2019*

**Estimating Bandwidth:** Estimated bandwidth using Auto ARIMA and other time series ML algorithms.

## PROJECTS

**Synesthesia Visualizer:** Create a visualizer that mimics the experience of Auditory Visual Synthesis with librosa and yin. Utilizes AWS infrastructure (autoscaling ec2 cluster) for compute and WebGL for VR.

**Delivery Service:** Created a web crawling service to notify available delivery slots for Whole Foods, Costco, or Safeway. Used AWS SNS, ECS, and Lambda functions. Created headless Chrome docker containers running Selenium.

**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 trombone midi controller using Arduino with capacitive sensing and pid controllers.

## PROGRAMMING SKILLS

**Langs:** Typescript, Javascript/Node, C++, C, Rust, Java, Python, (e)Lisp, Bash/Zsh, MDown, JSON, YAML, L<sup>A</sup>T<sub>E</sub>X

**Tech:** AWS, Linux, Emacs, Docker, k8s/k3s rancher, Nginx, Traefik, ReactJS, Tailscale, MongoDB, MySQL, ...

## CERTIFICATIONS

AWS Solutions Architect  
AWS Cloud Practitioner  
Stanford Machine Learning by Andrew Ng  
AWS Fundamentals Specialization

*September 2021*  
*August 2021*  
*July 2020*  
*June 2020*