

Personal Projects Personal Projects Work Experience Personal Projects September 2016 to Present Personal RTMP Streaming Site Created a custom Python-based server that would take in a stream and convert it to a https stream through a ReactJS front- end within 3 weeks. Personal Kaggle Machine Learning Competition Projects January 2019 to ongoing Created 3 machine learning projects predicting prices over the course of different datetimes using Python & Jupyter Notebook Experimented on Sklearn's Random Forest Regressors and Pandas to predict at a standing of at least 75th percentile for each leaderboard using RMSLE JPM 2019 Robot Race Competition June 2019 Won first place on a team of three for best overall presentation, design, and speed through an Arduino board to create a racecar that could complete 11 maps consisting of mazes, jumps, cliffs, and others. Programmed in a QBASIC-like language to race and play retro game music for presentation purposes. Software Engineer Intern JPMorgan & Chase Co - Columbus, OH June 2019 to August 2019 Led team of seven interns in developing 3 AI models within Watson Studio in a fast-paced TDD Agile framework for 4 sprints Scaled and visualized 3 python Sklearn and Keras models for millions of data series within 4 sprints Automated feeding process of millions of pieces of data to models from an S3 bucket to an ETL landing pad Integrated with the firm's API-first Global Technology Infrastructure for ease of reusability and sustainability Front- End Web & App Developer (PT) Research Foundation of CUNY - Manhattan, NY September 2018 to June 2019 Developed 12 wireframe templates and designs in CSS/HTML for proposal over the course of 16 hours Created and tweaked 8 pages for Sociological and Transgressive Research Project using WordPress CMS in 8 hours, and continuously added pages on demand Assisted development of sister site in Squarespace CMS with another web designer for 4 hours a week, focused on GIS integration through PHP Full-Stack Web Developer Intern (PT) Global Left Dialogue, Inc - Manhattan, NY September 2017 to June 2019 Optimized the Drupal 7 website by 70%, from 23 second average server response time to 7 seconds, by implementing applicable cache optimization strategies and removing outdated content Created 2 subdomains under Drupal 7 site for different chapters of the organization within 2 weeks Imported and mapped over 20,000 database nodes from Drupal 6 site into Drupal 7 using Drush Taught 5 interns over

the course of 5 weeks about Drupal and PHP, through collaborative projects on their own site and design OpenNYC Subway Data Processor May 2019 to May 2019 In 3 weeks and with C++, used NYC Open Data to analyze subway routes and entrances, then aggregate disjoint entrances into subway stations and routes through haversine calculations and hashing. CPU Top-level Simulation for Class March 2019 In 2 weeks, used C++ to simulate the ready-queue and IO queue functionality for a modern CPU and DMA, implementing a round-robin technique of priority scheduling and forking. Fully Functional Ocaml Knuth May 2019 to May 2019 Morris-Pratt for Class May 2019 In 2 weeks, analyzed the Knuth-Morris-Pratt algorithm and converted into an Ocaml using thumping techniques and a completely functional paradigm. Personal Twitter Topic Trender Project January - February 2019 Creating a scalable, high performance, concurrent module capable of processing a stream of topics arising from Twitter hashtags Developing a near 100% fully functional code in Scala, using the Scala Build Tool JPM Code for Good 2018 Website November 2018 Won fourth place out of 16 teams for our responsive design and emphasis on efficient querying Personally, worked on 100% of MYSQL and Python code, and 15% of the Node.JS and React code OpenNYC Tree Data Visualizer, Schoolwork March 2019 to March 2019 In 2 weeks and C++, used NYC Open Data to analyze and aggregate over 0.6 million different trees planted categorized by species, height, and address/borough and distance between each for visualization. Personal Weather App Development October 2018 to October 2018 Created app with 100% Kotlin over the course of estimated 100+ hours. Built overnight for 3-5 hours a day from 9PM onwards, starting with no experience in Kotlin or Java Built working API to grab current data from the National Weather Service to parse and display from in 2 weeks using Network IT Support Agent ThinkEco Inc - Manhattan, NY April 2018 to September 2018 Resolved over 4000 cases over the course of 4 months using IoT product and customer service skills, won employee award Scripted 4 Visual Basic Macros for website UAT Personal Website August 2018 to August 2018 Built 5-page website in 10 hours overnight using Squarespace CMS upon purchasing domain. Site hosts company information under my name, and will hold future projects Edited existing templates to achieve customized one within 4 hours using CSS/HTML and JavaScript Database Technician

Intern M-Point, Inc - Newark, NJ March 2017 to September 2017 Maintained software infrastructure for large data sets using python and MySQL Debugged and modified database components Junior Developer Intern Ashley Furniture Industries - Edison, NJ April 2017 to July 2017 Modified existing software to correct errors, adapt to new hardware and improved performance using Visual Basic and SQL Built Microsoft Access databases and table structures following n-tier architecture methodology for web applications Advanced Repair Agent Geek Squad Inc - Queens, NY August 2015 to November 2016 Performed critical backups in priority services over Managed and repaired an average of 15-18 laptops/desktops per workday (516)246-6882 [linkedin.com/in/aarlopez](https://www.linkedin.com/in/aarlopez) Education Bachelor's in Computer Science Hunter College - New York, NY September 2016 to Present Skills Android studio, C++, Html, Javascript, Reactjs, Php, Python, Mysql, Css, Clojure, Scala, Java, Android, Organization skills Links <http://linkedin.com/in/aarlopez> <http://github.com/aaron-loz> Additional Information SKILLS Technical Skills: Python, C++, ReactJS, Scala, Java, Ocaml, JavaScript, HTML/CSS, Clojure, Kotlin, PHP, MySQL, Android Studio, Composer, S3 Soft Skills: Approachability, Communication, Critical thinking, Organization skills, Agile

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