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(516)246-6882

AARON LOPEZ

Email: aarlopez96@gmail.com

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EDUCATION AND RELEVANT COURSEWORK

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**Hunter College** – B.A. in Computer Science, minor Accounting  
Major GPA: 3.26 cumulative GPA: 2.83

expected 05/2021

**Udacity Machine Learning Course**, handled Naïve Bayes implementation, regression models, and classifiers.

**Computer Architecture 1, 2 & 3**, handled implementation of CPU caching designs, virtualization, and performance

**Computer Analysis & Design 1 & 2**, handled abstract interface handling, design strategies for future maintenance

**Computer Theory 1**, handled Regular Expressions, Finite automata, Context-free Languages, and Turing Machines

**Matrix Algebra**, handled matrices, eigenvalues, eigenvectors

**Calculus 1& 2**, handled Trigonometric Integrals, convergences, Taylor and Maclaurin series, trigonometric and logarithmic functions, polar coordinates

**Intro. To Applied Statistics**, handled Bayes' Theorem, null Hypothesis testing, Confidence Intervals

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SKILLS

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**Technical Skills:** C++, Kotlin, PHP, MySQL, Android Studio, Visual Studio, Drush, Composer, NetBeans//copy paste job desc. if needed

**Soft Skills:** Approachability, Communication, Critical thinker, organized

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WORK EXPERIENCE

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**Front-End Web Developer (PT)**, 09/2018 to current

**Research Foundation of CUNY** – Manhattan, NY

- 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 add 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)**, 9/2017 to current

**Global Left Dialogue, Inc.** – CUNY Graduate Center, Manhattan, NY

- 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second average server response time to 7 seconds, by implementing applicable cache optimization strategies and removing outdated content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 PHP scripting modules for the purpose of limiting memory usage on pages that heavily relied on responsively calling dozens of nodes.
- Created 2 subdomains under Drupal 7 site for different chapters of the organization within 2 weeks.
- Fixed over 180 server errors and bugs on Drupal 7 site by using Linux command line tools to examine server memory usage and error-prone pages.
- 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.

**Network IT Support Agent**, 04/2018 to 09/2018

**ThinkEco, Inc.** – Manhattan, NY

- Resolved over 4000 cases over the course of 4 months using IoT knowledge of the product and customer service skills.
- Won Employee of the Week Award 14 weeks in the 4 months, based on highest cases per hour.
- Scripted 4 Excel documents for web debugging using Visual Basic

**Advanced Repair Agent**, 08/2015 to 11/2016

**Best Buy** – Queens, NY

- Performed backups and other critical tasks for clients.

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- Oversaw the daily performance of computer systems.
  - Documented all activities for client readability
  - Repaired an average of 8 laptops/desktops per 8 hour work-shift

**IT Club leader, 11/2010 to 06/2014**

**Leon M. Goldstein High School** – Brooklyn, NY

- Provided computational service to teachers and faculty members.
- Provided insight about products to faculty when reviewing promising technologies.
- Advised on products to senior faculty when reviewing promising technologies
- Educated and managed a group of 8 aspiring technicians

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## PROJECTS

**Personal Website 08/2018**

- 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

**Refugee Hub Social Web App (Code for Good) 10/19- 10/20/2018**

**JPMorgan Chase**– Columbus, OH

- Built 80% of Python to create API boilerplate interaction between MySQL and React over course of 26 hours in a 16-hour hackathon, aiming to implement data
- Created database with 3 tables and 200 query entries for unit testing and showcasing using 100% Python and MySQL
- Created 100% of hashing and salting implementations for database security in React calls within 4 hours of initialization.

**Weather App Development, Personal 10/2018**

- Created app with 100% Kotlin over the course of estimated 100+ hours. Built overnight for 3-5 hours a day from 9PM onwards, starting from 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 Retrofit2 in Android Studio.
- Listed fashion trends that work well with current temperature and forecast.
- Updated weather based on geolocation, caching response for up to 3 hours before updating again.

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## CERTIFICATIONS/HONORS/AWARDS

- Microsoft Certified Database Professional(MTA), focused on Microsoft SQL Server manipulation
- CompTIA A+ certification, focused on general hardware/software IT knowledge
- CompTIA Network+ certification, focused on network security, devices, virtual network creation and troubleshooting