

Alexander Ramirez

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Personal Summary

A student at the University of Maryland, College Park, pursuing a bachelor's in computer science. Fascinated by software engineering, machine learning, and learning in general. Seeking an entry-level developer position in order to gain real-world experience and gain knowledge from a wide breadth of coding disciplines.

Skills

Programming	Python, Pandas, Beautiful Soup, NumPy, matplotlib, spaCy, NLTK, Machine Learning, Natural Language Processing, C, Java, OCaml, Ruby, SQL, HTML, CSS, JavaScript
Miscellaneous	Shell, \LaTeX , Microsoft Office
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentations, Adaptability

Education

University of Maryland, College Park

College Park, MD

Pursuing a B.S in Computer Science

Sept 2020 - May 2024

- **Coursework:** Data Science, Programming for Data Science, Java, Object-oriented programming, program design, data structures, algorithms and algorithm analysis, C, procedural programming, Python, Ruby, OCaml, Functional Programming, SQL (PostgreSQL), UNIX environments, calculus, linear Algebra, Statistics

Work Experience

Amazon

Elkridge, MD

Warehouse Associate

May 2021 - September 2021

- Thrived in a fast-paced and physically demanding environment where efficiency was the utmost priority.
- Received and sorted incoming and outgoing packages and tracked and managed the inventory.
- Assured that the products are not damaged and that all outgoing products are in good overall condition.
- Managed outgoing packages and ensured all packages went on the correct routes.

West Arundel Swim Club

Laurel, MD

Lifeguard

Apr 2018 - September 2019

- Managed and maintained the safety of all patrons using preventative measures in and out of the pool.
- Maintained a friendly and personable demeanor for patrons and other staff.
- Memorized and practiced life-saving techniques such as CPR and rescue techniques in preparation for any emergency situations.
- Cleaned and did basic maintenance of equipment, aided and conducted swim skill tests, and tested the water for its residual chlorine levels ensuring patrons' safety.

Local church

The Gambia

Project leader / Volunteer

June 2020 - July 2020

- Assorted responsibilities as a volunteer, from assisting a local school that taught English to children, along with aiding in postpartum checkups in rural areas.
- Aided in legislature to reduce trash in public areas and improve younger representation in government.
- Completed my Eagle Scout project where we aimed to improve hygiene while cooking.
- As the project leader, my responsibilities included the design and conceptualization of the project. Procurement of materials, and management in a foreign country. These tasks required me to communicate my goals through a substantial language barrier while remaining within the budget.

Projects

Cheater Detection

I undertook a project with the goal of classifying cheaters by analyzing game statistics. Using a comprehensive, multi-dimensional chess data set, I examined patterns and behaviors that may serve as indicators of cheating.

Best path

I created a Java application that calculates the optimal path between two points, factoring in any obstacles within a given dimension. Users input the starting and ending points, as well as the obstacles, and the application, displays the optimal path that avoids them.

Perceptron

I've implemented a few Machine Learning algorithms, including Perceptron and I am currently working on KNN.

I am trying to grasp a good understanding of their inner workings instead of simply using the packages. I also plan to start a Computer Vision project soon.