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 Presentation.

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.
- 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.
- 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.

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.