

CASTILLO, ALESSANDRO

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Result-oriented, competitive, versatile, and hardworking aspiring Computer Science intern with strengths coding in **Python, Java, HTML, C, C++, SQL, R, and JavaScript** and strong ability to quickly understand other languages as needed. Hands-on experience with client and server-side networking, building and organizing large complex databases, using python to examine and linearize data from my physics labs, solving logical algorithmic problems using discrete math, and developing intelligent language models using advanced machine learning algorithms. Excellent communication, teamwork, team-leading, project management, customer management and retention skills; as well as experience in high-stress environments.

Objective: Seeking opportunity in Computer Science field, with particular interest related to data science and/or machine learning models, aspiring to be a significant member of a value driven company where I will able to put my skills and technical knowledge to practical use as I learn new practices to participate in organizational growth

Relevant Subject Material: **Multivariable Calculus, Discrete Mathematics, Data Structures, Advanced Programming, Physics Mechanics, Physics Electricity & Magnetism, Psychology, Computer Science Theory, Fundamentals of Computer Systems, University Writing, Chemistry, Physics Lab, Masterpieces of Western Art, Linear Algebra, Analysis and Optimization, Natural Language Processing, Intro-Computational Learning, Databases/SQL, Probability and Statistics, Machine Learning, Artificial Intelligence, Dynamic Systems, Deep Learning in Graphics, Neural Rendering, Causal Inference, ML for Finance, Finance and Structuring for Data Science, Climate Prediction with ML, Causal Inference 2, Partial Differential Equations, UI Design**

Relevant Awards: **R-key Save Our Air Hackathon Winner (June 2023), AP Scholar with Distinction (2021), National AP Scholar (2020)**

CORE QUALIFICATIONS

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| • Object-Oriented Programming | • Natural Language Processing | • Graphical Data Representation |
| • Project Management | • Machine Learning | • Statistical Optimization |
| • Data structures | • Data Science | • Applied Mathematics |
| • Artificial Intelligence | • Dynamic Systems | • Deep Learning |
| • Causal Inference | • Neural Rendering | • Finance and Structuring |

CORE COMPETENCIES

- Ability to prioritize and deliver results with a high emphasis on quality, technical rigor, and attention to detail
- Able to integrate feedback in a professional manner and thrives in multidisciplinary teams with members with highly diverse backgrounds
- Thorough understanding of computer hardware and software, including experience working in all parts of software development cycle
- Fluent in several programming languages, including **Python, HTML, C, C++, Java, SQL, R, React and JavaScript**
- Perform routine aspects of Information Technology requiring knowledge and application of basic Information Technology principles
- Excellent interpersonal skills, such as the ability to make technical information understandable to customers and end users.
- Solid background in mathematics, analysis, and problem-solving
- Strong organizational skills with the ability to work effectively across functions and teams, manage priorities and workflow providing accurate documentation and accountability
- Strong organizational skills with the ability to manage competing deadlines and priorities effectively within a fast-paced environment

WORK EXPERIENCE

Cardmath

Full Stack Software Developer

New York City, New York

Nov 2024 – Present

- Helping to develop start up application that allows users to better manage their credit cards and maximize credit rewards
- Work with large database to develop algorithms that personalize credit card management for users
- Develop UI of application to make it easier to understand for regular people

Graph Neural Network Research for Historical Revival and Analysis

New York City, New York

Researcher

Sept 2024 – Present

- Studied and read a wide breadth of research papers to hone down the type of architecture for my research problem
- Developed state-of-the-art graph neural network pipeline to process historical records and images
- Worked with research team to better structure historical records and archeological data to process in a graph and deep learning architecture

- Used developed pipeline to extract information from historical records and forensic evidence that could not be easily or efficiently extracted otherwise
- Columbia College Information Technology**
Client Support Services
 - Handled decommissioning and reimaging of desktops and laptops
 - Maintenance of computer systems and programs
 - Computer Hardware and Software support
 - Data Protection of software and information
 - Project Management for software implementation

New York City, New York
July 2023 - Present
- Amazon SWE**
Summer Intern
 - Helped develop and maintain internal Amazon application used for package sorting at Amazon’s fulfillment centers in North America
 - Worked with design teams to develop UI of application on ultra-portable devices
 - Worked with security team to ensure new operations and application UI functions maintains Amazon’s internal security measures
 - Worked with team to manage pipeline of operations in application to make it easier for other Amazon SWE teams to develop within our application
 - Managed historical and existing Amazon application codebase

Tempe Arizona
Aug 2024 – Sept 2024
- San Marcos Elementary,**
Summer School Volunteer
 - Ascertaining that classroom environment is in accordance to program goals and philosophies
 - Identifying warning signs of emotional or developmental problems and reporting to appropriate authority
 - Assist in planning and conducting activities to develop students physical, emotional and social growth

Chandler Arizona
June 2018 – July 2018
- STEM Seminars, (Girls Stempowerment Club)**
Organizer
 - Planned, organized and worked with senior staff to set and accomplish all girls’ math competitions and STEM seminars with young female students
 - Recruited, trained and managed a robust volunteer force, as well as student and non- student Fellows into teams to perform strategic consumer outreach tasks.
 - Participated in forums and sessions to present factual and time-sensitive information to competitors
 - Consistently achieved and exceeded personal and team assigned goals

Chandler Arizona
Jan 2020 – May 2021
- Olive Garden**
Restaurant Host
 - Accommodated guests with estimated waiting time, always maintaining a professional, courteous attitude when confronted with hostile, impatient, or irate guests
 - Provided special seating requests for guests whenever possible
 - Maintained contact with kitchen staff, management, serving staff, and customers to ensure that dining details are handled properly and clients' concerns are addressed

Queen Creek Arizona
Aug 2019 – Aug 2020

EDUCATION

Columbia University – Ongoing
School of Engineering and Applied Science, Computer Science Major with Applied Mathematics Minor

Basha High School, Chandler Arizona – 2021