

Adam Valencia

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EDUCATION:

Hamilton College, Clinton, New York

(Class of 2022)

Bachelor of Arts, Computer Science, Minor, Mathematics

- Cumulative GPA: 3.3
- Relevant Courses: Data Structures (C++), Algorithms (C++), Principles of Programming Language, Applied Theory, Differential Equations, Statistical Analysis of Data, Linear Algebra
- Accomplishments: LULAC \$1000 Rainbow Scholarship, 2020 CODE2040 Finalist, Hamilton College Class and Charter nomination

School of Science and Engineering, Dallas, TX

(Class of 2018)

- Cumulative GPA: 4.1; 3-Year Dallas ISD Honor/AP Scholar with Distinction

INTERNSHIP AND WORK EXPERIENCE

Undergraduate Researcher, Professor Darren Strash, Hamilton College

(January 2020 - Present)

- Student Research in parameterized algorithms for combinatorial graph problems for intensive data reduction
- Design and implement algorithms to solve the edge clique cover problem in C++ on a high-performance computing cluster
- Facilitate and conceptualize research findings through weekly meetings with research advisor and other student researchers

Software Safety and Reliability, Research Experience for Undergraduates, University of Texas at Dallas

(Summer 2020)

- Researched vulnerabilities in blockchain technology and how to mitigate integer overflow
- Coded 4 smart contracts in the Solidity programming language to test on Ethereum's network
- Retrieved over 30 smart contracts for our projects case study to test on Ethereum's most reliable smart contract security analysis tools
- Managed data from security analysis to propose Mythril as the best tool for integer overflow prevention

The Law Offices of Usman B. Ahmad, P.C., Administrator in Project Management, New York, New York

(Summer 2020)

- Conceptualized and created automated attorney docket workspaces for over 8 attorneys and 3 paralegals on over 100 cases
- Implemented Python script to sort and organize mailbox file systems from over three thousand files to individual client cases
- Automated statistic aggregation using Smartsheet software including total trials completed, win percentages, and trial distinction

Hamilton College Computer Science Department, Teaching Assistant, Hamilton College

(December 2019 - Present)

- Provide teaching assistance for Introduction to Computer Science and Data Structure courses
- Assist student's success in class weekly through mentoring in project completion, debugging, and in-class lab work

Higher Education Opportunity Programs, STEM Tutor, Hamilton College

(2019-Present)

- Design and develop semester plan in order to ensure success from students in computer science through weekly coding projects
- Tutor three students a week with 1-2-hour sessions per student. Progress updates after every exam to evaluate improvement
- Outcome: Students exhibited improvement after each successive exam and project with semester grades being B+ and above

ORGANIZATION AND ADDITIONAL EXPERIENCE

La Vanguardia, Vice-President, Hamilton College

(January 2019 - Present)

- A Latinx-led organization to help address and solve social and political issues present in today's society
- Program and facilitate discussions through weekly meetings including members, keynote speaker, and alumni

Code Goliath, Organizer, Dallas, Texas

(Summer 2019)

- A free community-led bootcamp to allow equal access to topics in computer science and programming fundamentals
- Created program structure and syllabi for 3 college-student instructors to implement in order to ensure 11 student participant's success

Residential Life, Resident Advisor, Hamilton College

(August 2019 – June 2020)

- Created cultural, social, mental, and racial awareness in helping counsel, support, and program to ensure 31 residents' wellbeing

ROOTS, General Board, Hamilton College

(January 2020 -Present)

- A society for students of color in STEM in order to ensure success in environments where diversity and inclusion is not a priority

SKILLS & INTERESTS

- Technical Skills: Proficient in Python, C++, and JavaScript. Knowledgeable in HTML, CSS, Prolog, Smalltalk, and Ruby
- Skills: English (Fluent), Spanish (Basic), result driven, project management, collaborative, team-oriented, communicable
- Tools: Git, Remix IDE, Visual Studio Code, Smartsheet, LATEX
- Interests: Escape Rooms, Gaming, R&B, Apple Inc., Board Games, Tesla (Renewable Energy), Blockchain