

# Adam Valencia

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## EDUCATION:

**Hamilton College, Clinton, New York**

(Class of 2022)

*Bachelor of Arts, Computer Science, Minor, Mathematics and Education*

- Cumulative GPA: 3.3
- Relevant Courses: Data Structures (C++), Algorithms (C++), Principles of Programming Language, Applied Theory, Artificial Intelligence (Python), Statistical Analysis of Data, Genetic Programming (Clojure), Compilers (C++)
- Accomplishments: CODE2040 Fellow 2021 Dean's List, LULAC Rainbow Scholarship, Hamilton College Class and Charter

## INTERNSHIP AND WORK EXPERIENCE:

**DoorDash Software Engineering Intern, DoorDash, San Francisco**

(Summer 2021)

- Chosen from over 60 interns to assist in deprecating monolithic architecture for microservices.
- Designed a new API that improves scalability, reliability, and security for engineers running bulk operations.
- Created 7 new gRPC endpoints for photo microservice that allows for ease of merchant usability and increase merchant sales
- Designed new API for photo service to handle gRPC and HTTP requests accessing different databases as necessary

**Undergraduate Researcher, Professor Darren Strash, Hamilton College**

(January 2020 – January 2021)

- 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 aggregation using Smartsheet software including total trials completed, win percentages, and trial distinction

**Higher Education Opportunity Programs, STEM Tutor, Hamilton College**

(2019-Present)

- Design and develop semester plan 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 today
- Program and facilitate discussions through weekly meetings including members, keynote speaker, and alumni

**ROOTS, General Board, Hamilton College**

(January 2020 -Present)

- A society for students of color in STEM to ensure success in environments where diversity and inclusion is not a priority
- Aggregate data on conferences, internships, and work experiences to develop a network of support as head of Academic Chair

## SKILLS AND INTERESTS:

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