

Sidh Suchdev

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Education

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| Aug 2021- Present | University of Texas at Austin | Austin, TX |
| <ul style="list-style-type: none">Bachelor of Science in Computer Science | | |
| Aug 2017- May 2021 | Cypress Woods High School | Cypress, TX |
| <ul style="list-style-type: none">Ranked 2nd out of 857 students with a GPA of 6.900 on a weighted 6 point scale | | |

Experience

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| May 2021 - Aug 2021 | A-Plus Computer Science | Cypress, TX |
| <ul style="list-style-type: none">Developed an online IDE built off the LAMP stack capable of editing, running, and saving user inputted Java or Python codeImplemented a dynamic user interface that updates as the user makes changes using JavaScript and jQueryCreated a robust file saving and retrieval system using AJAX calls and managed database queries using PHPRestructured various software design issues and patched severe vulnerabilities | | |

Projects and Activities

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| Jul 2021 | IBM Qiskit Global Summer School 2021 on QML | Remote |
| <ul style="list-style-type: none">Enrolled in a two week course designed to teach the principles and applications behind quantum machine learningLearned about topics in quantum information theory such as qubits and various quantum algorithms, topics in quantum machine learning such as quantum kernels, as well as the quantum computing library QiskitDemonstrated knowledge in quantum machine learning through various labs testing on the material covered in lecturesAwarded a Certificate of Quantum Excellence for passing on all the labs throughout the course | | |
| Mar 2021 | CTF-crypto-lib | Cypress, TX |
| <ul style="list-style-type: none">Created a Python library designed to make solving cryptography problems for cybersecurity CTFs simplerImplemented cracking tools for simple ciphers such as the Caesar Cipher and Vigenere Cipher as well as attacks on more modern encryption techniques such as RSA | | |

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| Apr 2020 | DiscordLanguageParser | Cypress, TX |
| <ul style="list-style-type: none">Created a Discord bot in Python that parses unformatted code snippets sent in messages, attempts to classify the language, and resends the code snippets with the correct formatting | | |

Skills

- Programming Languages:** Java, C/C++, JavaScript, Python, PHP, SQL
- Frameworks and Programs:** HTML/CSS/JS, AJAX, jQuery, ReactJS, Node.js, MariaDB, Unix/Linux
- Concepts:** Algorithms, Software Development, Mathematics, Cryptography, Cybersecurity, Quantum Computing, Git, REST APIs

Awards/Certificates

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|---|--|----------|
| Jul 2021 | Certificate of Quantum Excellence | Remote |
| <ul style="list-style-type: none">Received award for passing on all labs on the IBM Qiskit Global Summer School 2021 | | |
| May 2021 | UIL 6A State Champion for Computer Science Team Event | Texas |
| <ul style="list-style-type: none">Placed first in the Computer Science Team event for the Texas 6A Conference, a team event that tests knowledge in algorithms and programming through several coding questions | | |
| March 2020 | American Invitational Mathematics Exam Qualifier | National |
| <ul style="list-style-type: none">Scored a 108 on the AMC 12 B 2020 exam and qualified for the AIME | | |