

Alexander Parks

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EDUCATION

The University of Texas at Austin, Austin, TX

August 2021 - May 2025 (expected)

Bachelor of Science, Computer Science and Mathematics

- GPA: 3.879
- Relevant Coursework: Data Structures, Software Engineering, Computer Organization and Architecture, Linear Algebra and Matrix Theory, Geometry of Space (FRI), Probability I, Differential Equations with Linear Algebra, Intro to Number Theory, Discrete Mathematics, Intro to Programming, and Sequences, Series, and Multivariable Calculus
- Activities and societies: Machine Learning and Data Science Club (MLDS), Hispanic Association of Computer Scientists (HACS), Computer Science Transfers' Society (CSTS), Freshman Research Initiative (FRI), Texas Iron Spikes, UT RecSports Intramural Sports

Summer Creek High School, Houston, TX

August 2017 - May 2021

- GPA: 4.0
- Class Rank: 5 / 585
- Relevant Coursework: AP Calculus BC, AP Statistics, and AP Physics 1
- Activities and societies: National Honor Society, Academic UIL (Number Sense and Mathematics Events), Science National Honor Society, Men's Soccer (Varsity Captain), Football

SKILLS

Technical /Computer Skills: Familiar with Java, C, Python, HTML, CSS, Git, GitHub, GitLab, Postman API, VS Code, Microsoft Word, and Microsoft PowerPoint; Exposed to TypeScript, React, Flask, SQL, PostgreSQL, SQLAlchemy, Pandas, Matplotlib, Plotly, Amazon Web Services (AWS), Google Cloud Platform (GCP), and Microsoft Excel

Languages: Fluent English, Basic Spanish

PROJECTS

[DietRiot Web Application](#)

- Built and deployed a React web application to provide users with recipe and diet information
- Utilized HTML, CSS, and TypeScript to create model pages and instance cards for each recipe or diet
- Constructed a RESTful API using Postman and generated over 40 unit tests for the API and web application
- Completed with a team of five in a summer Software Engineering course

[Personal Portfolio Website](#)

- Designed and created a personal portfolio website using HTML for page content and CSS for styling
- Enhanced my original site by implementing HTML elements such as images, headers, and anchors

Memory Management System

- Designed and developed a dynamic storage allocator in C to mimic the malloc() and free() functions used for memory management
- Utilized bitwise operators and linked lists to ensure the alignment, padding, and efficient allocation of memory

Private Equity Investment Simulation

- Utilized Python, Pandas, Plotly, and Matplotlib to determine simulated investment decisions in Upworthy by analyzing a variety of Upworthy's business and consumer data and metrics
- Completed with a team of four at Texas Datahack Hackathon 2022

Huffman Encoder/Decoder

- Implemented a Huffman encoder/decoder in Java using various data structures such as lists, maps, and binary search trees
- Modified the existing text-based and graphical user interface for users to choose files to encode or decode

“Evil Hangman” Game

- Modified an assignment from a Data Structures course to include multiple difficulty levels and a new interface
- Implemented various Java data structures and algorithms, such as lists, maps, and nested classes

EXPERIENCE

Chick-fil-A, Houston, TX

June 2022 – August 2022

Delivery Driver

- Delivered Chick-fil-A products to over 500 customers in the Houston area with a 95% on-time rate
- Dispatched a team of 3-5 delivery drivers based on in-store and delivery activity levels
- Maintained a safe and clean work environment, both in-store and while making deliveries

U.S. Soccer Federation, Houston, TX

August 2016 – December 2021

Soccer Referee

- Enforced the laws of the game in over 500 recreational and competitive soccer matches in the Houston area
- Maintained a safe and controlled game environment for all players, coaches, referees, and spectators

UT RecSports, Austin, TX

September 2021 - November 2021

Intramural Sports Referee

- Enforced the laws of over 50 UT RecSports intramural soccer and dodgeball matches
- Maintained a safe and controlled game environment for all players, coaches, referees, and spectators

Sweetwater Pools, Houston, TX

May 2020 - September 2020, April 2021 - July 2021

Assistant Manager, Lifeguard

- Ensured patron and lifeguard safety and sanitation at over ten public pools in the Houston area
- Promoted to managerial shifts and managed a team of 3-7 lifeguards during each shift
- Implemented and enforced sanitary restrictions and policies during the COVID-19 pandemic

LEADERSHIP & COMMUNITY INVOLVEMENT

Computer Science Transfers’ Society (CSTS)

August 2021 - Present

Treasurer, Member

- Planned and allocated funds for biweekly events, such as transfer application and professional workshops and organization-wide socials
- Designed, acquired, and distributed merchandise to over 50 active members
- Authored and distributed an annual prospectus for both current and potential corporate sponsors

Texas Iron Spikes

August 2021 - Present

Administrative Officer, Member

- Designed, acquired, and distributed merchandise to over 100 active members
- Collected and managed over \$5,000 in purchase orders from members before distributing merchandise
- Engaged in a variety of service events and projects, such as park cleanups, gardening programs, and meal drives

Machine Learning and Data Science Club (MLDS)

August 2021 - Present

Member

- Attended biweekly events, such as technical workshops, networking events, and organization-wide socials
- Collaborated and competed with a team in both semester-long and weekend-long hackathons

Hispanic Association of Computer Scientists (HACS)

August 2021 - Present

Member

- Attended biweekly events, such as professional workshops, networking events, and organization-wide socials
- Engaged with members of other UTCS student organizations in department-wide socials and diversity events

National Honor Society

September 2019 – May 2021

President, Member

- Planned and administered biweekly chapter meetings with the NHS officer team for over 130 members
- Communicated and conducted weekly chapter-wide volunteer opportunities, such as donation drives, school spirit workshops, and academic outreach at 3 local elementary schools

Atascocita United Methodist Church Youth Leadership Committee

August 2017 – December 2019

Committee Member

- Organized worship, community outreach, and recreational activities for over 40 high school youth group members
- Authored youth group worship lessons, monthly newsletters, and weekly activity schedules

HONORS AND AWARDS

- Hispanic Scholarship Fund Scholar Fall 2020, Fall 2021, Fall 2023
- University Honors Fall 2021, Spring 2022, Fall 2022, Spring 2023
- Colonel and Mrs. Guy Cloud II Scholar Fall 2022
- August Kuntz Scholar Fall 2021
- Wilhelmina Pegram Robertson Scholar Fall 2021
- District 21-6A Men’s Soccer 1st-Team Academic All-District Spring 2021
- District 21-6A Men’s Soccer 1st-Team All-District Spring 2021
- National Merit Commended Scholar Fall 2020
- National Hispanic Scholar Fall 2020
- AP Scholar with Distinction Spring 2020, Spring 2021
- AP Scholar Spring 2019