

Vivan Sen Das

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EDUCATION

The University of Chicago

Bachelor of Science in Computer Science, Minor in Classical Studies

Overall GPA: 3.84/4.0 | GPA in Major: 4.0/4.0

Chicago, IL

Expected, June 2027

- **Financial Markets Program:** Selective, three-year program focused on building quantitative finance acumen through weekly workshops, personalized advising, employer visits and coursework at the Chicago Booth School of Business
- **Relevant Coursework:** Data Structures, Systems Programming, Discrete Mathematics, Theory of Algorithms, Machine Learning, Physics Mechanics and E&M

Groton School

Diploma: Summa Cum Laude, Honor List 2019-2023

Groton, MA

June 2023

EXPERIENCE

UChicago Institute of Politics

Web Development and Cybersecurity

March – June 2024, October – November 2024

- Worked on multiple projects with group, focused on web development and cybersecurity
- Worked with the Inclusive Design Institute to implement secure cybersecurity protocols for client website using SSL encryption for a WordPress website as well as Signal API and IFHS for archiving
- Developed website for annual Mandala South Asian Performing Arts festival, which stores video recordings of performances and pages on important locations and calendar dates for event
- Performed full stack development using ReactJS and MySQL. Committed ~3 hours weekly

PROJECTS

Custom Unix Shell

November 2024

- Created custom shell that takes in basic UNIX commands. Can parse through live user input or text files with listed commands. Written in C language and committed 15+ hours to project
- Shell supports regular I/O redirection as well as prepending files with redirected output
- Defensively programmed to account for user error and tested rigorously with 100+ test cases

LZW File Compressor

October 2024

- Program compresses files in LZW format, written in C language and committed 20+ hours to project
- Included features which allow control over max number of bits used to print dictionary entry in compressed file and allow for dictionary table pruning to make compression more efficient
- Achieved compression ratio between 20% and 50% on text files, tested with 30+ test cases

Soccer Match Prediction Project

August 2024

- Trained a machine learning model to be able to predict match winners for Premier League matches
- Extracted dataset from the internet using web scraping tools in Python
- Achieved 58% accuracy by refining model to include rolling average statistics based off match data

Python Software Development Project

Software Development Team

Chicago, IL

February – March 2024

- Worked in team of four to create digital version of the board game GO
- Project took place over five weeks and used Git
- Included design of TUI, GUI, game-bot, Game Logic, and QA testing.

LEADERSHIP & INVOLVEMENT

Algo Group

Group Member

Chicago, IL

September 2024 – Present

- Pre-Professional CS group to promote personal growth and professional development in Tech industry
- Attend weekly workshops to learn and work through key technical concepts in software development

Cross County Captain

High School Team Captain

Groton, MA

September – November 2022

- Elected by teammates as Captain, led daily practices, fostered teamwork, and served as a mentor for the team
- Led team to second place league and regional division finish for the first time in over a decade

SKILLS

Computer: Proficient in Python, C, JavaScript, Git, Linux, NodeJS, Microsoft Excel, and Word

Interests: Jazz, Classical Music, Premier League Soccer, NBA, Formula 1 Racing