

Joseph Chau

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Education

TEXAS A&M UNIVERSITY

COMPUTER SCIENCE

📅 Grad. May 2025

📍 College Station, TX

Coursework

Discrete Structures for Computing • Modern Algebra • Differential Equations • Calculus I-III • Data Structures & Algorithms • Computer Organization • Programming Languages

Skills

PROGRAMMING

Python • R • C/C++ • JavaScript • Java • JavaFX • Rust

MISCELLANEOUS

LaTeX • Microsoft Office

Honors

EAGLE SCOUT

- Participated in community service and environmental preservation.
- Learned and practiced responsibilities and good character.

Projects

3RD | TAMU DATATHON 2022

📅 Oct 2022

- Used Tesseract to train a optical character recognition(OCR) model using generated ground-truth material from copies of individual letters.
- Utilized various graphical techniques to clean up images that can accurately be used for detection.

GRAPHITE 2ND | TAMUHACK

📅 January 2023

- Created a note-taking web application that interfaces a connection graph to highlight the connections between specific topics.
- Utilized real-time cloud syncing, fuzzy search algorithms, and api connections to allow people to take notes in collaboration in parallel.

Experience

TAMUCTF DEVELOPER TEAM

📅 August 2023 - Present

- Developed several cryptography challenges for the TAMUctf, an annual cybersecurity competition hosted by TAMU.

ACPC PROBLEMSETTER

AGGIE COMPETITIVE PROGRAMMING CLUB CONTEST

📅 August 2023 - Present

- Wrote challenges for the semiannual competitive programming competition held by ACPC and hosted on codeforces.

US CYBER COMBINE ATHLETE

📅 June 2023 - Present

- Learned and applied techniques in all different fields of cybersecurity to be selected to represent the US in the International CyberSecurity Challenge(ICC).

Competitions

CYBERSECURITY

TAMUCTF

📅 April 2023

- Won first as a student at TAMU for a scholarship of \$5000
- Solved a variety of cybersecurity challenges in a jeopardy style Capture the Flag with several categories.

NATIONAL CYBER LEAGUE

📅 April 2023

- Placed top 30 in the individual competition and 3rd in the team competition, consisting of challenges of various cybersecurity fields.
- Solved challenges in binary exploitation, cryptography, web exploitation, and open source intelligence.

COMPETITIVE PROGRAMMING

TAMU FALL 2022 PROGRAMMING CONTEST

📅 November 2022

- Complete speed based input-output coding problems.
- Team selection for participation in the ICPC.

ICPC REGIONAL QUALIFIER

📅 February 2023

- Five hour competitive programming competition
- Significant use of dynamic programming, algorithms, pathfinding, and data structures.

MATHEMATICS

PUTNAM TOP 500

📅 December 2022

- Two three hour sessions working individually on challenging math problems.
- The leading university-level mathematics examination in the world.