

EVAN ZHAO

U.S. Citizen

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EDUCATION

University of Maryland - College Park, MD

May 2025

Bachelor of Science, Computer Science Major, Statistics Minor

GPA: 3.931 / 4.0

- President's Scholarship for 4 years, University Honors Citation, Dean's List for Every Semester
- Selected Courses: Web Development, Machine Learning, Data Structures, Algorithms, Computer Systems, Applied Probability and Statistics, Computer and Network Security, Data Science, Programming Language Technologies

SKILLS

Languages & Frameworks: React, Next.js, Figma, Node.js, Vercel, MongoDB, Postman, Javascript, TypeScript, CSS, HTML, Python, D3, SQL, Java, C, C++, ROS, Ruby, R, OCaml, Rust, Dafny, Haskell, AWS, Docker, SAS, MATLAB

RESEARCH/WORK EXPERIENCE

The Robotics Institute, Carnegie Mellon University

June 2023 - Present

Research Intern

Pittsburgh, PA

- Developing a cross-platform web interface using React, Next.js, and TypeScript to visualize patient diagnostic time-series data with Observable and D3.js as part of the US ARMY / CDMRP supported project "Patient Care Technologies for Permanent Ambulatory Artificial Lung Support", led by Keith Cook
- Utilizing Figma to create quick visual mock-ups of pages for faster iteration and prototyping to gather feedback
- Designed a [3D visualization](#) in Python with NumPy and Matplotlib to simulate snake-like robot pipe traversal using transformation matrices, contributing to the DOE ARPA-E funded project "Confined Space Mapping Module for In-Pipe Repair Robots" (DE-AR0001331), led by Howie Choset and Lu Li

Digital Services and Technologies, University of Maryland Libraries

May 2024 - August 2024

IT Helpdesk

College Park, MD

- Led project configuring and re-imaging 15 new desktops for the circulation desks of all 4 UMD libraries across campus
- Resolved, debugged, and triaged 150+ hardware and software issues affecting library staff and students

The Security, Privacy, People Lab (SP2), Maryland Cybersecurity Center

August 2023 - August 2024

Research Assistant

College Park, MD

- Assimilated and analyzed qualitative data points from 900+ survey responses, concluding that users prefer simple data privacy settings that enforce the equal exchange of information, such as requiring message read receipts for both parties
- Co-authored a comprehensive manuscript of end-user perspectives on data privacy controls between two participating parties

PROJECTS

Gun Crime Data Analysis

January - May 2024

- Published a Google Collab notebook describing the various steps of data analysis used to explore US gun violence
- Developed Python code with Pandas to clean the data and SciPy to perform analysis with hypothesis testing and a regression machine learning model to predict annual gun crime occurrences from the unemployment rate

Shell Senior

August - December 2022

- Developed C code for a Linux shell that supports boolean operations, pipes, file redirection, and standard Linux commands

Joke Generator Website [[GitHub Repository](#)]

June - August 2022

- Designed the front end of a website with React, Javascript, CSS, and HTML that pulls jokes from an API and displays them

LEADERSHIP AND CLUBS

Filipino Cultural Association at the University of Maryland

August 2024 - Present

Co-Director

College Park, MD

- Collaborate with co-directors to produce and promote video content for [YouTube](#) and [Instagram](#), managing logistics, filming, editing in DaVinci, and designing graphics in Canva to contribute to a 200+ member cultural organization and achieve 1,000+ views per post.

Maryland Men's Crew, University of Maryland

August 2022 - May 2023

Rower, Equipment Manager

College Park, MD

- Directed and participated in morning and afternoon team practices to row 3 hours daily, totaling 30,000 meters weekly
- Managed the inventory of all items needed by the team, such as hardware, boats, oars, tools, and others