EVAN ZHAO

U.S. Citizen

College Park, Maryland | 860-368-1275 | evanzhao90@gmail.com | https://github.com/EZow25 | Portfolio

EDUCATION

Georgia Institute of Technology - Atlanta, Georgia *May 2027*
Master of Science in Human Computer Interaction

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 every semester
- Selected Courses: Web Development, Human Computer Interaction, Machine Learning, Data Structures, Algorithms, Computer Systems, Applied Probability and Statistics, Computer and Network Security, Data Science, Database Design

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 Assistant *Pittsburgh, PA*

- Redesigning a webpage portal for business professionals to view and annotate data from pipe-traversing robots, creating prototypes in Figma and implementing them with NextJS and Typescript for the DOE ARPA-E funded project "Confined Space Mapping Module for In-Pipe Repair Robots" (DE-AR0001331), led by Howie Choset and Lu Li
- Conducting heuristic-based user studies to gather feedback and iterate on prototypes
- Designing a remote monitor webpage for researchers to view real-time data from a smart medical device for the US ARMY / CDMRP supported project "Patient Care Technologies for Permanent Ambulatory Artificial Lung Support", led by Keith Cook

Research Intern *Pittsburgh, PA*

- Developed 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
- Utilized 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 the SOUPS 2025 accepted paper "Do You See If I See? Investigating Reciprocity in Interpersonal Access-Control Settings" researching 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
- Cleaned and analyzed data using regression models and hypothesis tests to predict annual crime occurrences

LEADERSHIP AND CLUBS

Filipino Cultural Association at the University of Maryland *August 2024 - Present*
BuzzFCA Co-Director *College Park, MD*

- Produced YouTube and Instagram content for the 200+ member cultural organization's subgroup BuzzFCA, managing logistics, filming, editing in DaVinci, and creating graphics in Canva to achieve 1,000+ views per post