

EMILY JAO

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EDUCATION

Pennsylvania State University

University Park, PA

College of IST | B.S. in Cybersecurity Analytics and Operations, Minor in Information Sciences & Technology

Class of May 2027

School of Music | Minor in Music Performance

GPA: 3.49

Relevant Coursework: Cyber-Defense Studio, Organization of Data, Programming for the Web, Overview of Information Security, Networking and Telecommunications, Threat of Terrorism and Crime, Language, Logic, and Discrete Mathematics

International Studies Institute

Florence, Italy

Study abroad coursework in HIST 360: History & Culture of Italian Food

May – June 2024

- Analyzed 5+ local wines, breads, and olive oils in Florence and Tuscany to examine Italian regional culinary diversity.

PROJECT WORK EXPERIENCE

Programming for the Web (IST 256) - Jewelry Shop

Fall 2024 Semester

- Developed a responsive web application for a jewelry shop, using HTML, CSS, Bootstrap, and JavaScript with jQuery for interactive product search and filtering from a JSON document, improving product discovery.

Overview of Information Security (SRA 221) - Final Project Report

Fall 2024 Semester

- Analyzed advanced injection attacks, uncovering vulnerabilities in large language models to inform security improvements.

Organization of Data (IST 210) - LibSQL Project III

Fall 2024 Semester

- Created a data analysis report for library inventory, using SQL for database queries and data visualization tools to present insights, facilitating informed decisions on book pricing and inventory management.

PROFESSIONAL EXPERIENCE

Penn State IT Desk

University Park, PA

IT Consultant

Oct 2023 – Dec 2024

- Delivered technical support and system maintenance for 100+ clients by managing printer operations, reinstalling operations systems, and restocking supplies, ensuring uninterrupted student workflow.

Bach Choir of Pittsburgh

Mclean, VA

Website Redesign Consultant

June – Aug 2024

- Organized the information hierarchy with five stakeholders, using project management skills to enhance platform usability.

LEADERSHIP & INVOLVEMENT

Consultant Training Program (CTP)

University Park, PA

Trainee

Feb 2025 – Apr 2025

- Utilized problem-solving skills in a team case, increasing client revenue by \$0.3 million and predicting a 15% yield.
- Completed 10-hour lecture, enhancing professionalism and consulting skills for several case studies and mock interviews.

IST Career Development Organization (ICDO)

University Park, PA

President

Feb 2025 – Present

- Directed ICDO initiatives by creating video content, flyers, social platform, and a logo, increasing club awareness in events.
- Chaired meetings with industry professionals to provide IST students with career resources to succeed in the industry.

Competitive Cybersecurity Organization (CCSO)

University Park, PA

Team Captain

Oct 2024 – Present

- Led team to top 50% in PicoCTF competitions using network analysis and cryptography, enhancing team performance.
- Participated in lectures on web exploitation with Burp Suite and Wi-Fi hacking using WiGLE, enhancing red team skills.

Japanese Student Association (JSA)

University Park, PA

Outreach Chair

Oct 2024 – Present

- Coordinated 2-hour weekly meetings and collaborated on outreach tasks to strengthen Japanese community engagement.

COMPETITIONS, SKILLS, & INTERESTS

Competition: National Centers of Academic Excellence (NCAE) Cyber Games (NSA), Mountain West Cyber Challenge (Deloitte), CYBERSEED (UCONN), PicoCTF '25 (CMU)

Technical: SQL, HTML, CSS, JavaScript, Node/Express.js, MongoDB, Java, jQuery, Network Security, Linux, ServiceNow, Adobe

Language: Fluent Japanese and Intermediate Mandarin

Interest: Chess, Viola, Ski, Sports Entertainment, Melon Soda