

EMILY JAO

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EDUCATION

Pennsylvania State University

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

University Park, PA

Class of May 2027

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

GPA: 3.55

International Studies Institute

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

Florence, Italy

May – June 2024

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

PROJECT WORK EXPERIENCE

Siemens Global Engagement Survey (SGES) Analysis PowerPoint – Siemens

Summer 2025 Semester

- Analyzed survey responses and 400+ comments from SGES, identifying key trends and top-performing departments to support 150 Siemens Digital Industry employees in Japan company-wide engagement strategies.

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.

PROFESSIONAL EXPERIENCE

Siemens K.K.

Digital Marketing Intern

Osaki, Tokyo

May 2025 – Present

- Updated 10,000+ Salesforce accounts, removed duplicate IFAs in Snowflake, and maintained data flow for 60+ users.
- Collaborated with a team of seven on OT client engagements and CRA assessments to drive cybersecurity resilience.

Penn State IT Desk

IT Consultant

University Park, PA

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

Website Redesign Consultant

Mclean, VA

June – Aug 2024

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

LEADERSHIP & INVOLVEMENT

Consultant Training Program (CTP)

Trainee

University Park, PA

Feb – 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)

President

University Park, PA

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)

Team Captain

University Park, PA

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)

Outreach Chair

University Park, PA

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, Express.js, MongoDB, Java, ServiceNow, Power BI, Outreach, Sie Sales, Snowflake

Language: Fluent Japanese and Intermediate Mandarin

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