

EMILY ZHANG

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EDUCATION

Northwestern University

Evanston, IL

Bachelor of Arts and Master of Science Degree, Computer Science GPA: 3.89/4.00

September 2021- Anticipated June 2024

- *Business in Healthcare Club: Treasurer to Co-President to VP of Technology, WildHacks Director of Technology, NU World Cup Web-Dev Team, CS 310 Peer Mentor, NU Tutors, N'CAT Tutor, NU CS Mentor, YW Tech Lab Volunteer*

SKILLS

Programming Languages: Python, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, Racket, Stata, Matlab, DSSSL2

Libraries & Frameworks: React, Flask, Next.js, Express.js, Pandas, Scikit-learn, Cypress, MITRE ATT&CK

Technologies: Azure, Heroku, Git, Postman, Arduino, Firebase, AWS, Elastic Stack, Ansible, CrowdStrike, Tenable

Awards & Honors: Northwestern Dean's List, UCSD Provost's Honors, Cum Laude Inductee, UCLA MUN Outstanding Delegate

EXPERIENCE

OmniSOC

Bloomington, IN

Cybersecurity Intern

July 2023 - Aug 2023

- Conducted comprehensive analysis of Northwestern's high and critical alerts from CrowdStrike, identifying problematic hosts, distinguishing between True and False Positives and conducting in-depth research on various files and executables
- Evaluated critical vulnerabilities using Tenable's CSV export, pinpointing problematic hosts and recurrent vulnerabilities
- Engaged in security labs focused on maintaining clusters and integrating Logstash with VMs, and developed proficiency in using Elastic Stack for security alert engineering, SIEM for log collection and Ansible for infrastructure automation
- Participated in real-world simulations such as the Backdoors and Breaches TTX Activity and MITRE CTF, fostering a deeper understanding of threat detection, response and mitigation techniques, and SOC functions and investigations

Oil-Dri Corporation of America

Chicago, IL

Master Data Intern

Aug 2022 - Sep 2022

- Supported the maintenance of data management stored in the JDE ERP and facilitated general vendor setup activities in the Product Data Management portal as part of Oil-Dri's data transition from the AS400 system
- Ensured validation of vendor information and provided support for projects by extracting, adding and changing requested data

Raymond James Financial

Newport Beach, CA

Horgan Group Intern

Apr 2022 - July 2022

- Used the RJF secure-based lending software to conduct potential loan analysis and risk assessment for individuals and companies with the firm to help clients with SRL applications
- Established and maintained client relationships through opening new accounts with RJF client onboarding and maintenance software, Maximizer CRM, client center and service center
- Conducted research on market performance through RJNet and MarketEdge software and developed client reporting, portfolio performance and analysis reports with RJF wealth management center

University of California San Diego

La Jolla, CA

Student Researcher

Oct 2020 - Jun 2021

- Researched topics including the economic rationales and consequences of the Sino-US trade war and the political-economy of a changing international order in the presence of Sino-US conflicts
- Developed comprehensive knowledge of Stata in performing data analysis, data visualization and linear regression on WTO dispute data, and worked intensively to present said research at the annual Undergraduate Research Conference

PERSONAL PROJECTS

WildHacks Website (<https://www.wildhacks.net/>)

- Designed and developed a front-end client for Northwestern's annual WildHacks competition with React
- Integrated Next.js for an interactive dashboard complete with user authentication, project submission and judging algorithm

ConnectedSpine

- Built a responsive web application using React for logging backpain symptoms and receiving appropriate recommendations
- Established a Firebase Realtime Database for structured user data storage and leveraged Firebase Hosting for deployment
- Conducted user tests with prepared test materials and E2E tests with Cypress and Firebase emulators
- Led sprint planning sessions and collaborated with cross-functional teams to refine app features, ensuring iterative development and user-centric designs following the principles of agile software development

Photo-App

- Developed a full stack web application with integrated user authorization, database design and front-end client interface modeled after inspiration from Instagram's social media platform, and deployed using Heroku hosting service
- Incorporated a range of web technologies including Flask for server-side processing, PostgreSQL for database management, RESTful APIs for data interactions and secured user authentication mechanisms with JSON Web Tokens