

Chloe Fox

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EDUCATION

Arcadia University

Major: Bachelor of Science in Computer Science

Minors: Mathematics, Statistics

Honors: Honors Program (2020-Present), Dean's Honor List (2020-Present)

Glenside, PA

Expected May 2024

Major GPA: 4.00

WORK EXPERIENCE

Allied Services

Student Intern, IT

Clarks Summit, PA

June 2023 – Present

- Designed a comprehensive third-party vendor security assessment to identify and mitigate potential vulnerabilities
- Facilitated in migrating 3000 employee files from a paper system to a document manager for enhanced efficiency
- Improved the security of 20 SQL servers through implementation of robust user access management protocols
- Fielded help desk calls in a professional manner effectively troubleshooting technical issues remotely for end-users

Long Term Care Group (LTCG)

Actuarial Analyst Intern

Trevoze-Feasterville, PA

June 2022 – August 2022

- Assisted in conducting and analyzing LTC industry research to gain an understanding of current market conditions
- Condensed two Claim Reserve Summaries, reducing file size by 80% to decrease opening and updating times
- Programmed user defined functions in Excel using VBA to reduce manual input of common actuarial formulas
- Prepared and processed data, in *Microsoft Access and Excel*, for consulting actuaries use in financial reporting
- Presented to senior consulting actuaries, summarized completed projects as well as the skills learned from them

Allied Services

Student Aide, HR

Clarks Summit, PA

June 2019 – August 2021

- Managed dependent audit of employee health insurance, effectively removing 10 unauthorized dependents
- Conducted professional license audits in order to keep all professional licenses organized and up to date
- Assisted in employee retention efforts by carrying out 30-day check-in interviews with new employees
- Aided in orientation and onboarding weekly for up to 25 new hires by assisting with paperwork and employee IDs

MENTORSHIPS

Aon

Actuarial Mentorship

Online

February 2022 – May 2022

- Participated in two case studies, both by myself and as a team, that replicated work done by the Aon team
- Gained insight into the actuarial field in group calls with executives and through one-on-one mentorship

LEADERSHIP EXPERIENCE

Arcadia University Honors Co-President

BOB: Bee of Belonging

March 2023 – Present

- Organize and run council meetings to check in with the committees and discuss recent news within the program
- Hold town halls to allow all voices of the community to be heard and to facilitate new ideas within the program
- Oversee multiple committees and provide support to committee leaders in resolving any issues that may arise
- Collaborate with the honors program director to strategically shape the future direction of the program
- Facilitate a positive environment and experience within the program as well as help attract new members

Arcadia University Honors Coordinator

House Mentor, Beekeepers Co-Coordinator: Honors Floor

August 2021 – May 2023

- Organize engaging and informative events for house members to participate in at bi-weekly meetings
- Represent the house and committee at weekly Honors Council meetings to voice new ideas from their members
- Organize collaborative events for the Honors Floor that provide educational and professional development

Arcadia University Honors College Access Mentoring Program (CAMP)

Mentor

September 2020 – Present

- Mentor students at a local high school to help prepare them for their future goals after they graduate
- Guide students who are struggling with schoolwork through individualized review of current class materials

CLUBS AND ACTIVITIES

- National Cyber League and Social Engineering Teams | CS Club

January 2023 – Present

SKILLS

Coding

- In depth experience with using *Java* as an object-oriented programming language
- Experience with *Python* and data analysis libraries such as *seaborn*, *numpy*, *scikit-learn*, and *pandas*
- Professional and educational experience with *MySQL* querying and relational database creation
- Exposure to *JavaScript* and *React/Node* frameworks in terms of reading, analyzing, and modifying code
- Experience with implementing efficient solutions through careful design and analysis of algorithms

Cybersecurity

- Fundamental understanding of the security assessment process from start to finish: intelligence gathering, initial foothold, network enumeration, privilege escalation, persistence, lateral movement, password cracking, data exfiltration, and reporting
- Experience with tools such as: *Metasploit*, *Hashcat*, *Nmap*, *Dirbuster*, *Wireshark*, *Ngrok*, and *Mimikatz*
- Familiar with social engineering and its importance in the security assessment process

National Cyber League Competition

Placed in the top 1% of 3593 teams in the team game and top 10% of 6273 competitors in the individual game

- OSINT: Utilized the OSINT framework, *Google Dorking*, *Shodan*, and *Wigle*
- Cryptography: Became familiar with different *encryption* methods and *ciphers*
- Password Cracking: Gained a more in depth understanding of *Hashcat* and identifying hash types
- Log Analysis: Became more familiar with *grep* and how to read and identify *logs* properly
- Network Traffic Analysis: Increased knowledge of *Wireshark* capabilities and network protocols
- Forensics: Learned to use a diverse toolset for file content and memory dump analysis
- Scanning and Reconnaissance: Learned how to explore metadata and utilize the information outputted by *Nmap*
- Enumeration & Exploitation: Gained understanding of how to use *Ghidra* to reverse engineer an executable file
- Web Application Exploration: Developed skills in *JavaScript* exploitation and the use of *Burp Suite*

Operating Systems

- MacOS, Windows, and Linux (Kali and Ubuntu)

Virtual Machines and Containers

- Experience deploying and configuring *Docker* containers and VMs in *VirtualBox*, *Google Cloud*, and *Oracle Cloud*

PROJECTS

Evil ChatGPT

- Trained GPT3 model to socially engineer customers for personally identifiable information (PII)
- Deployed a fake customer service website with chat capabilities on a Google Cloud machine
- Future plans to dockerize the application to make it easily deployable by the open-source community

Arcadia Place

- Deployed application similar to Reddit's r/place from open-source GitHub repository
- Made several modifications to the application to meet projects needs and desired specifications
- Ran program on an Oracle cloud server in order to display it on a touchscreen board on campus
- Organized a campus event to promote collaboration and creativity and celebrate personal identities and interests

Analysis on the Current State of the Tech Workforce

- Designed and executed a data analysis project in *Python* based on the 2021 Stack Overflow survey
- Posed research questions to understand current employment levels, industry demographics, and desired skills
- Used *scikit-learn* library to do *linear regression analysis* in order to predict salaries based on qualifications
- Correlation analysis between salary and factors such as age, gender, race, and years of experience
- Wrote a technical report overviewing my research methodology and significant findings

Baby Name Database

- Worked on a team to create a *MySQL* relational database with tables for names by birth year, gender, and state
- Created an Entity Relationship (ER) diagram to model the design of the database before building it
- Used *Excel pivot tables* in order to preprocess the data in to the format that was needed for final database design
- Wrote an interactive *Java* program so that users could easily retrieve desired information from the database