Madeline Savoiu

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EDUCATION

California State University, Fullerton　　　　　　　　　　　　　　　　　GPA: 3.87
Computer Science, B.S.　　　　　　　　　　　　　　　　　　　　　*Aug. 2023 – May 2027*
- **Coursework**: Data Structures & Algorithms, Object Oriented Programming, Cybersecurity Fundamentals

PROJECTS

Arrow | *github.com/msavoiu/arrow*　　　　　　　　　　　　　　　　Nov. 2024 – Present
- Social media platform built with Node.js, React, and Express aiming to connect aromantic/asexual individuals and foster community within this underrepresented group
- Implementing user registration/login, profile creation, messaging, forum, and meetup scheduling functionality on the backend using PostgreSQL, providing users with multiple engaging ways to connect
- Utilizing Google Maps API to create a UI for finding other users, aromantic/asexual meetups, and general LGBTQ+ events nearby, making it easy for users to build community in-person as well

CMC You Later! | *github.com/msavoiu/cmc-you-later*　　　　　　　　Dec. 2024 – Present
- Developing a Python tool that execute voice commands to perform tasks like navigating the desktop and writing code, aimed at reducing repetitive strain injuries for programmers and others in the tech industry
- Exploring and utilizing PyTorch's Wav2Vec2 speech model to implement accurate voice recognition functionality

AO3 Wrapped | *github.com/msavoiu/ao3-wrapped*　　　　　　　　　June – Aug. 2024
- Full-stack web application developed with Python, Flask, and Jinja2, providing custom user statistics not available on Archive of Our Own (AO3), a popular creative writing platform
- Integrated HTTP requests and web scraping to extract password-protected user reading data and generate entertaining statistics
- Designed responsive, mobile-friendly UI with HTML, CSS, and JavaScript, styled with AO3-inspired visuals to make statistics more fun to share on social media
- Deployed web app using AWS EC2 and configured custom domain using Route 53, ensuring a user-friendly URL

EXPERIENCE

Treasurer and Social Media Marketing Manager　　　　　　　　　Jan. 2024 – Present
CSUF Offensive Security Society　　　　　　　　　　　　　　　　　　　*Fullerton, CA*
- Manage club finances and process payments, directly enabling the Red Team's access to essential hacking environments to strengthen their preparation and performance in competitions
- Audit invoices and receipts, file reimbursement requests, and ensure timely and accurate payouts for board members to maintain smooth financial operations
- Present at inter-club council meetings to secure funding for food, materials, and merchandise that boost student attendance and engagement at club meetings
- Design posters/digital infographics, create social media posts, and table during club rush week to promote events, socials, and team tryouts, increasing student turnout by 40%

Red Team Penetration Tester　　　　　　　　　　　　　　　　　　　　　Apr. 2024
CSUF Offensive Security Society　　　　　　　　　　　　　　　　　　　　*Pomona, CA*
- Developed Windows and Linux ethical hacking skills with a team of 5 using HackTheBox at weekly meetings, earning the second place award at Cal Poly Pomona's Information Security Competition
- Conducted extensive penetration testing on a simulated corporate network over a 2-week time frame
- Uncovered security risks through network reconnaissance, password cracking, and AI prompt injection
- Compiled findings into a comprehensive 67-page report outlining vulnerability risk metrics, HIPAA and GDPR compliance violations, cyber attack replication methods, and recommended remediation strategies
- Delivered a high-level, professional presentation of our findings to industry professionals

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS
Frameworks/Technologies: Node.js, React, Express, Postgres, AWS, Flask
Developer Tools: Git/GitHub, VSCode, Postman, Burp Suite