Crystal Lee

San Francisco, CA | crystalleesf@gmail.com | 415-317-5711 | linkedin.com/in/crystalleesf

Education

University of California, Irvine, Irvine, CA **Expected:** September 2018 – June 2022
Major: Bachelor of Science, Computer Science / Minor: Informatics **GPA:** 3.81 (Dean's Honor List)
Relevant Courses: Data Structures Implementation and Analysis, Design and Analysis of Algorithms, User Interaction Software, Information Retrieval, Intro to Data Management, Intro to Artificial Intelligence, Machine Learning and Data Mining

Experience

IBM, Austin, TX (Remote)
Backend Developer Co-op September 2020 – Present
- Assisting a development team of 12 engineers with the release of a new product by implementing Python scripts that standardize the format of incoming data and automates the process of updating the Cloudant databases
- Using Node.js to develop a confidential webapp that displays data visually and audibly and integrates Kafka to process real-time security logs
- Tools: Python, Cloudant, Kafka, Node.js, Express, JavaScript, HTML, CSS

Backend Developer Intern June 2020 – September 2020
- Built a fullstack webapp to automate the analysis of cyber threat intelligence reports, which will aid security analysts in quickly extracting and mapping relevant phrases to one of about 300 known cyber-attack techniques
- Crowdsourced and filtered training data to ensure my threat intelligence classification model had high accuracy
- Contributed to the open-source Sigma project by translating Sigma rules to Structured Threat Information Expression patterns to develop a knowledge base of standardized security log files for automated incident detection
- Tools: Python, Python Flask, JavaScript, HTML, CSS, PostgreSQL, Docker, IBM's Natural Language Classifier API

UCI Department of Computer Science, Irvine, CA January 2020 – June 2020
Grader, Data Structures Implementation and Analysis Course in C++
- Graded five programming projects, ten weekly assignments, and two exams per quarter for correctness and quality
- Reviewed about 300 student submissions per week
- Communicated with students through email regarding assignment grades, regrade requests, and provided clarification for point deductions

UCI Computer Vision Lab, Irvine, CA November 2019 – June 2020
Undergraduate Researcher
- Refined a formula that calculates the "Nash Score" of a pitcher based on his total pitch count, pitch frequencies, and pitch values. This score measures a player's efficiency and can determine what pitches can help the player improve.
- Generated heat maps with pitch descriptors (e.g., speed and movement) gathered from a pitch tracking system
- Tools: Octave, Python, R

Leadership & Affiliations

Women in Information and Computer Sciences (WICS), Irvine, CA December 2020 – Present
Marketing Committee Member
- Publicize club events through regular social media postings (Facebook, Instagram, Twitter)

Hack at UCI, Irvine, CA April 2020 – Present
Corporate Outreach Organizer
- Contact over 150 companies for financial sponsorship, promotional items, and mentorship
- Collaborate with 30 student organizers to plan annual hackathons, professional events, and technical workshops
- Promote the club through persistent emailing, scheduling phone calls, and attending career fairs and hackathons

Skills & Interests

- Technical Skills: Python, HTML, CSS, JavaScript, MySQL, PostgreSQL, C++
- Interests: Volunteering, Dance (Contemporary, Ballet, Jazz), Card making, DIY crafts, Matcha desserts