# Crystal Lee

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## 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 events
- 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

**Hack at UCI**, Irvine, CA                                                          April 2020 – Present
**Corporate Outreach Organizer**
- Contact over 150 companies for financial sponsorship, hardware, 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