

JASON YANG

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EDUCATION

University of California, Berkeley

Expected May 2023

- Bachelor of Arts in Computer Science, GPA: 3.5
- Relevant Coursework: Efficient Algorithms and Intractable Problems, Data Structures, Introduction to Database Systems, Operating Systems and Systems Programming, Great Ideas in Computer Architecture, Structure and Interpretation of Computer Programs, Probability and Random Processes, Discrete Math and Probability Theory

SKILLS

Languages: Python, Java, C, C++, HTML, CSS, JavaScript, SQL, RISC-V Assembly

Tools: Git, AWS S3, AWS EC2, AWS DynamoDB, MySQL, PostgreSQL, React, Express, Flask, OpenMP, Intel SSE, OpenCV

EXPERIENCE

Software Development Engineer Intern

May 2021 - August 2021

Amazon

Tempe, AZ

- Designed and devised auditing feature using Node.js to log and display information about users' past changes inside of LEGO, a drag and drop Content Management System for new Amazon sellers to build websites showcasing their products
- Captured and saved all changes made by users into DynamoDB and relayed this data from the back end to the front end by building a RESTful web service with Express.js
- Created user interface to present detailed auditing data for all LEGO components to users by utilizing React, Redux, and Express.js containing information about the exact changes, time, and user who made the change

Research Assistant

February 2020 - December 2020

Roland Henry Laboratory at the University of California, San Francisco

San Francisco, CA

- Built a web streaming visualization of patients' step counts over time with Python, Plotly, and Flask after parsing CSV files with Pandas and storing the data in a MySQL database
- Constructed an authenticated RESTful web service of patients' biometrics using Python, OAuth, Flask, and SQLite to reduce machine learning data preprocessing time
- Developed application to let patients see their own biometric data, health statistics, and health insights in real time by leveraging Fitbit's Web API, Python, SQLite, and NumPy

Software Engineering Intern

June 2019 - August 2019

Tala Security

Fremont, CA

- Categorized over half of the violations for a stricter Content Security Policy by building a security profile using URLs accessed and triggered for each Chrome Web Store extension with Node.js and PostgreSQL
- Crawled through all of the source code for each Chrome Web Store extension and searched source code for malicious keywords and URLs to create a fingerprint for each extension
- Displayed interactive graphs and summarized details of classified violations and most frequently used extensions, URLs accessed, and URLs triggered using Plotly and Node.js.

Software Engineering Intern

June 2018 - August 2018

Tala Security

Fremont, CA

- Created security profile of third-party web objects by analyzing source code and aggregating vulnerabilities from the NVD's CVE API; published invention in US Patent 20200137126A1
- Scraped all web objects from Alexa's 1M most visited websites and Cloudflare's CDN and searched through source code for data loss prevention keywords to generate a reputation score for each object
- Built a visualization of most frequently used and most vulnerable third-party web objects using Plotly, Node.js, and PostgreSQL to display interactive graphs and summarize key details

LEADERSHIP AND EXTRA-CURRICULAR ACTIVITIES

UAVs at Berkeley

August 2019 - Present

Wrote back-end code to identify spontaneously placed objects in images with k-means clustering using OpenCV, Scikit-Learn and TensorFlow as part of the Object Detection, Location, and Classification team.