Maggie Luo

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Education

University of California, Berkeley Aug 2016 - May 2020
B.A. Computer Science
Relevant Coursework: Data Structures • Algorithms and Intractable Problems • Database Systems • Computer Security • Operating Systems and System Programming • Computer Architecture • Discrete Mathematics and Probability Theory • Artificial Intelligence Designing Information Devices and Systems I • Principles and Techniques of Data Science • Sound and Music Computing
Technical Languages & Technologies: Java, Python, React/Redux, Javascript, HTML/CSS, SQL, IntelliJ, Adobe Illustrator, Docker

Experience

Software Engineer | Afterpay *San Francisco, CA* Jul 2020 - Present
- Building the core systems that serve customers, merchants, risk engines, and core payment processing on the Risk Engineering team

Software Engineer Intern | Uber *Seattle, WA* May 2019 - Aug 2019
- Designed and implemented a web application in React/Node.js for a gateway server that manages access to Uber service secrets (credentials, tokens, access keys, etc) in order to prevent unwanted manipulation of critical data and improve developer experience
- Created the Redux store, actions, and reducers for managing state to update the interface on search, submit, list, and delete secret
- Developed and tested a Golang rate limiter against requests to the Vault secret store in order to prevent distributed denial-of-service

Software Development Engineer Intern | Amazon *Seattle, WA* May 2018 - Aug 2018
- Designed and implemented the integration of an OAuth-based security scheme to a Java service development tool in order to support the migration towards Native AWS across Amazon's services by communicating with an Auth Server using a RESTful API
- Built a Ruby client to link user input on the Rails website to the Java back-end based on the user's Auth Type drop-down selection
- Wrote comprehensive unit/integration tests using Java mocks and unit/UI tests using RSpec/Capybara for the Ruby on Rails website

Projects

Underrepresented Minority School Searcher Apr 2020 - Present
- Created an application with Python/Beautiful Soup to web scrape GreatSchools.org for all schools in a user's desired city and state
- Used the XPath of web elements to retrieve data such as school test scores, racial demographics, english-language learners, and low-income percentage in order to efficiently identify and sort schools with higher rates of underrepresented minorities
- Working on asynchronous requests to improve response times, integrating with Google Sheets API, and designing a user interface

Automated Finance Web Form April 2020
- Used Python Google Sheets API to get data from a spreadsheet and automate filling web forms using Selenium Chrome Webdriver
- Reduced the average time for submitting the purchase request web form on UC Berkeley's club finance page from 35s to 3s (-91%)

Organizations

Berkeley ANova Computer Science Mentors Jan 2017 - May 2020
President (Spring '20), Community Chair (Fall '19), Professional Development Chair (Fall '18), Internal Vice President (Spring '18)
- Teach computer science in Python to students in low-income, under-resourced middle and high schools across the East Bay
- Led club projects including storage of 75 laptops, hardware integration, and obtaining $8k club funding through the ASUC
- Supported a team of 14 Officers and 2 Vice Presidents as President by leading weekly officer meetings, planning short- and long-term goals for club growth, and empowering every member to take meaningful action towards fulfilling our mission

Theta Tau Professional Engineering Fraternity Sep 2017 - May 2020
Corresponding Secretary (Spring '19), Technology Chair (Fall '18)
- Managed the Ruby on Rails website on Docker by regularly updating the PostgreSQL database and front-end information
- Planned and organized the Theta Tau Womxn's Meet-Up event by leading intimate group discussions on working women in engineering, female stereotypes, body image, sexual health, and promoting gender equality within the fraternity's culture