Melissa Lee

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Education

Stanford University (4.0 GPA)   **Sep 2020 - Jun 2024**
- 2024 B.S. Computer Science, specializing in Artificial Intelligence and Human-Computer Interaction

Technical Skills

- Python, Java, Git, C, C++, Javascript, HTML, CSS, ReactJS, Django, Dialogflow, Apache Kafka, BentoML, Jenkins, Docker
- Coursework: Data Structures, Algorithms, Computer Systems, Probability Theory, Natural Language Processing with Deep Learning, Artificial Intelligence, Logic Programming

Work Experience

Riot Games, Software Engineering Intern (*Los Angeles, CA*)   **Jun 2022 - Sep 2022**
- Improved overall player experience by enabling quicker and more-reliable detection of offensive user-specified names
- Revamped Riot's existing cross-platform name-checking implementation from a single hard-coded pipeline architecture to a Kafka-based flexible and modular streaming implementation that enables simultaneous evaluators
- Integrated a proprietary BERT Machine Learning model used as a secondary evaluator that improved disruptive name-checking quality by 50%. Programmed using Java, Python, and BentoML. Deployed through Docker and Jenkins
- For all projects, created a detailed technical design document to create architectural alignment among engineers

Pareto, Frontend Software Engineering Intern (*Remote*)   **Jun 2021 - Sep 2021**
- Joined early-stage startup focusing on subcontracting technical tasks for startup ventures
- Designed and implemented interactive company web pages describing latest service projects and positive customer reflections, while promoting current team capabilities. Integrated usage of Javascript, ReactJS, HTML, and CSS
- Built, customized, and verified website React components using Vercel, Storybook, and Chromatic
- Implemented internal Workforce Management System tool enabling greater visibility and authority over work hours, task expectations, and task delegation within the team

CheaprEats, Backend Software Engineering Intern (*Remote*)   **Nov 2020 - Jan 2021**
- Created custom GraphQL and Javascript scripts to extract vendor and customer data from a PostgresSQL database. Queried user analytics to generate restaurant recommendations

Checkbook.io, Software Engineering Intern (*San Mateo, CA*)   **Jun 2019 - Jul 2019**
- Programmed Dialogflow scripts in Google Mini devices to announce company promotions triggered by user keywords

Interest Projects

Spotify Web Assistant
- Designed custom web application accessing Spotify API to retrieve album covers with 30-second track samples given a Spotify artist URI. Enabled download feature to save songs to local devices
- Utilized frontend Javascript with Python backend Django web server

Settlers of Catan Online Game
- Programmed Apache Tomcat Java web server to host online multiplayer Settlers of Catan board game with customizable development cards
- Creatively implemented automated multi-user page refresh using standard chatbox primitives

Wrestling Dual Meet Server
- Created wrestling dual meet software to run and score wrestling matches for my high school
- Used Googlescript-enabled Google Sheets for data entry and Python simple web server for backend match scoring

Extracurricular

Instructor for Elementary and Middle School Summer Python Class   **Jun 2022 - Present**
- Volunteer my weekends instructing weekly introductory Python lessons to young students interested in programming

Elementary School Outreach Chair for Stanford Society of Women Engineers   **Feb 2021 - Present**
- Promote STEM for Palo Alto elementary school girls by developing hands-on workshops building solar-powered cars and household-item science experiments

Founder and Mentor for the ["Yes We Can" Initiative](#)   **May 2019 - Jun 2020**
- As a Silver Medalist at the 2018 Pan-American Women's Wrestling Championships representing Team USA, realize the impact that success in a male-dominated sport can bring to young women
- Created an elementary school support program to foster young girl involvement in the challenging sport of wrestling, influenced 50% increase in female wrestler retention from previous season