

Angela Zhu

415-816-3283 | xiaolinangela@gmail.com | [LinkedIn](#) | [Github](#)

SKILLS

React, Redux, Javascript, Django, Python, SQL, PostgreSQL, C, RESTful, Routes, css, HTML, Data Structures

APPLICATIONS

Software Engineer | Quarantina Recipes | <https://github.com/xiaolinangela/quarantinarecipes>

Tech Stack: React, Redux, ReduxForm, Python, Django, Django REST Framework, PostgreSQL, Semantic UI

- Developed a responsive front-end and back-end application providing users the ability to upload recipes
- Integrated REST APIs using Django Rest Framework that performs CRUD operations on a PostgreSQL database
- Incorporated React-Redux container and Redux selector patterns to architect highly scalable front-end state management that enabled access to listing recipes, user registration and authentication
- Created user registration and authentication from scratch using Django authentication schemes
- Implemented custom client-side form validations using Redux Form to avoid unnecessary AJAX requests

Software Engineer | Stream - Twitch Clone | <https://github.com/xiaolinangela/react-streams>

Tech Stack: React, Redux, ReduxForm, Node.js, HTML, Semantic UI

- Developed a web application in React/Node.js that allows users to create and view live streams
- Utilized the Redux single-state management to streamline data between the backend and frontend to allow for well-rounded and real-time CRUD functionality, allowing users to create, update, view and delete streams
- Integrated Google Sign-In using OAuth 2.0 flow and handled Auth Status through Redux

Software Engineer | Craigslist Web Scraper | <https://github.com/xiaolinangela/localgem>

Tech Stack: Python, Django, HTML, css

- Created an application with Python/Beautiful Soup to web scrape Craigslist.org posts in a user's local community
- Built search functionality and stored searched items using Django models

PROFESSIONAL EXPERIENCE

Kateeva – Product Marketing Engineer | Newark, CA

August 2018 – January 2020

- Led cross-functional teams from product conception through launch to the end of OLED display inkjet printers life cycle
- Combined customer inputs and competitive intelligence to provide roadmaps for future flexible OLED inkjet printers
- Collaborated with engineering team to develop new product specifications based on flexible display market research

Tesla Inc – Mechanical Engineering Intern | Fremont, CA

May 2017 – Jan 2018

- Developed strength and durability FE models to analyze and optimize Tesla vehicle designs including Model S,X,3&Truck
- Collaborated with design engineers to provide design improvements in strength & durability based on CAE analysis
- Utilized CAE methods and process to improve efficiency and accuracy of the vehicle simulations

American Bureau of Shipping – Ship Structural Engineer | Houston, TX

January 2014 – July 2016

- Performed detailed engineering plan review and analysis for new vessels and marine structures to ensure compliance with ABS vessel design rules and US Coast Guard regulations
- Conducted inspections on navy vessels and LNG ships to meet the requirements of international maritime regulation
- Developed finite element analysis on offshore drilling units to develop new load resistance factor structural design rules

RESEARCH

Technische Universität Hamburg – Visiting Graduate Researcher | Hamburg, Germany

May 2018- August 2018

- Contributed Matlab code to the development of topology optimization methods of flexible multibody systems

Osaka University Graduate School of Engineering – Undergraduate Researcher | Japan

March 2013 – August 2013

- Performed FEA using MSC Marc on various hollow steel columns to observe the seismic behavior

EDUCATIONS

University of California, Berkeley

- Master of Science in Mechanical Engineering
- Bachelor of Science in Civil and Environmental Engineering

Graduation: May 2018

Graduation: December 2013

LEADERSHIP

Women Who Code – Silicon Valley Chapter Leader

June 2019 – Present

- Organized tech meetups and virtual webinars to assist women developing new technical skills and advancing careers