



Laura Fang

2033 F St., APT 205, Davis CA 95616 | (408) 799-5513

yzfang@ucdavis.edu | laurafang.com | linkedin.com/in/laura-fang | github.com/laurafang

TECHNICAL SKILLS

- **Front-End:** JavaScript; HTML5; CSS3; jQuery; AJAX; Node.js; Bootstrap; Responsive Web Design; UI/UX
- **Back-End:** Java; Python (Django, Flask); R; Swift; C++; C; Prolog; Ruby
- **Databases:** MongoDB; MySQL; AWS S3; PostgreSQL; SQLite
- **Knowledge:** Data Structures & Algorithms; Object-Oriented Programming/Design ; Git; Linux/UNIX; HTTP; TCP/IP; REST API; Artificial Intelligence

EDUCATION

University of California, Davis

Davis, CA

Bachelor of Science, Computer Science

Dec, 2017

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Software Engineering, Artificial Intelligence, etc.

PROFESSIONAL EXPERIENCE & PERSONAL PROJECTS

Data Lion(Shushi) Technology Inc. | Software Engineer Intern | Shenzhen, China Jun 2016 - Sep 2016

- Focused on designing new features for an internal communication tool to help build productive workplace
- Built new internal posts UI and a rich text editor for posting and updating technical articles with Markdown format
- Built a User Dashboard UI from scratch by using **React + Redux** framework that allows personalization
- Refactored codes, separated **APIs**, improved UI styles and wrote **unit tests** for new features
- Assisted in maintenance of database on **data mining, data analysis** and **data entry** using SQL and Excel

UC Davis Health System Student Review| Full-stack Developer Intern | Sacramento Oct 2016 - Jan 2017

- Developed "Write a Review" functionality for Medical/Psychology students contributing their thoughts to weekly volume and created corresponding web components, back-end services and UIs
- Remodeled the website structure using **JavaScript, CSS, html5** integrated with **Liferay Enterprise Portal**
- Improved the user experience by making APIs more responsive and loading data asynchronously by using **jQuery** and minimize **CSS** by analyzing Runtime Performance and entire **Critical Rendering Path** in panel of DevTools

User Level Thread Library in C | Davis, CA

Mar 2016 - Jun 2016

- Designed and developed a user level thread library to allow user to start, terminate, and manipulate threads with basic POSIX standard interfaces in C and evaluate its gain and loss compared to kernel threading solution
- Implemented a thread scheduler with round-robin scheduling algorithm and with periodic clock signals a preemption-enabling API to force uncooperative threads to yield
- Implemented semaphore to control entering of critical sections and demonstrated the Producer-Consumer problem

Restaurant Catalog Application Demo | RESTful Web Application | Vagrant

Jun 2017 - Sep 2017

- Built a site that allows users to upload restaurants and menus with **RESTful** service using Python Framework **Flask, AJAX, Bootstrap**
- Created a blogs system that allows user to create, read, update and delete(**CRUD**) contents maintaining a database to store and retrieve corresponding data
- Built Login system with **Google Plus APIs, Facebook APIs** and other third-party **OAuth** providers properly implementing authentication mechanisms by a **middleware** and appropriately mapping HTTP methods to CRUD operations makes it a high-level secured web application

Web Logs Analysis Tool| PostgreSQL| Vagrant | Davis, CA

Aug 2017 - Sep 2017

- Built an informative internal reporting tool to interactively analyze web logs from a news website involving over a million of lines of data rows
- Developed a **Python** data analysis tool using SQL queries to access a shared database derived from a web application from command line
- Implemented fields representing information that record HTTP status, URL paths, and other features could be selected or filtered for accurate data searches.

ACTIVITIES & INTERESTS

- **Activities:** Davis Computer Science Club; Hack Davis Hackathon 2016; Hack Davis Hackathon 2017
- **Languages:** English (Professional Proficiency), Mandarin (Native)