

Laura Fang

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TECHNICAL SKILLS

- **Languages:** Java; Python; C++; JavaScript; C; R; Swift; Prolog; Ruby
- **Framework & Lib:** React; Angular; Node.js; jQuery; AJAX; Bootstrap; Django; Flask; Bootstrap; Spring
- **Databases:** PostgreSQL; AWS S3; Amazon Lightsail; MongoDB; MySQL; SQLite
- **Knowledge:** Junit; MVC Patterns; RESTful API; DOM; OOP/OOD; Git; Linux/UNIX; TCP/IP

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, Interactive Media, Graphics & The Computer, etc.

PROFESSIONAL EXPERIENCE

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

- *Designed and implemented an internal communication tool that allows teammates to write and share documentations and automatically translates and previews technical documentations with Markdown grammar, which promotes team productivity by avoid switching to other markdown-recognizing apps*
- Built a User Dashboard with **React + Redux** framework that translates Markdown grammar and implemented text styling features e.g. inline images, unordered list, header, italic
- Designed the user interface with **LESS**, and applied **marked** (npm package) as the markdown syntax parser
- Refactored codes, separated **APIs**, assisted in maintenance of database, improved UI styles and wrote **unit tests** for new features

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

- *Individually designed and implemented a "Write a Review" functionality for Medical/Psychology students contributing their insights to school weekly volume and re-built index-page components, back-end services and UIs, making the entire website responsive and functional*
- Remodeled the website structure using **JavaScript, CSS, html5** integrated with **Liferay Enterprise Portal**
- Deployed Http server in Python that connected with **MySQL** database and retrieved uploaded files from users
- Improved the user experience by minimize **CSS** and making APIs more responsive; loading data asynchronously by using **jQuery Ajax** by analyzing Runtime Performance and entire **Critical Rendering Path** in panel of DevTools

PERSONAL PROJECTS

Mini Yelp Application Demo | RESTful Web Application | Vagrant

Jun 2017 - Sep 2017

- *Built a Yelp-like web application with user registration and **authentication** system that allows users to find and upload restaurants and menus with **RESTful** service, using Framework **Flask, JQuery AJAX, Bootstrap***
- Created a blogs system that allows user to create, read, update and delete contents maintaining a **PostgreSQL** database to store and retrieve corresponding data
- Built a Login system with third-party **OAuth APIs** like **Google Plus, Facebook** and secured web application by properly implementing authentication mechanisms by a **middleware** and appropriately mapping HTTP methods to CRUD operations
- Deployed on Amazon Lightsail : <http://34.214.8.251/>

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

Aug 2017 - Sep 2017

- *Built an informative internal reporting tool to interactively analyze data from a live database of a newspaper 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 real-time 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.

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

ACTIVITIES & INTERESTS

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