

Qilan (Kyra) Zhang

Looking for full time Software Engineer starting Spring 2020
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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Statistics and Computer Science; Major GPA: 3.94/4.00

Urbana-Champaign, IL

Expected December 2019

Relevant Coursework: Art and Science of Web Programming, Database Systems, Computational Model and Algorithm, Computer Architecture, Data Structure, Operating System

Hohai University

Bachelor of Science in Industrial Design; GPA: 4.88/5.00

Jiangsu, China

September 2015 - June 2017

Awards: National Scholarship for the academic year of 2015-2016

PROJECTS

Next Apartment

<http://sublease.s3-website-us-west-2.amazonaws.com/>

React.js, MongoDB, Node.js, Express

March 2019 - May 2019

- Collaborated with 4 developers and built a platform for users to post apartment information and look for apartments or roommates with NERD stack(Node.js, Express, React, and Database)
- Implemented the RESTful API and utilized Mongoose to manipulate 30k+ tuples of information
- Developed user component including profile page and authentication module with React.js
- Deployed and configured the website on AWS Elastic Beanstalk

Road Trip Together

PHP, MySQL, JavaScript

May 2018 - August 2018

- Led a team of 4 developers to build a web application that performs post matching for users
- Collected data of over 100k+ place using Python, developed MySQL data schema to pertain authentication and real-time chats, reduced query time by 60% using indexing and virtual table
- Integrated Google Map API to enable location services and post matching with KD-Tree data structure
- Powered the website with Apache web service on CentOS 7 server

Shell and Malloc

Course Project for CS241 Operating System

C, Linux

March 2019 - May 2019

- Wrote a simple shell which will process inputs and run the Linux command lines by a new process
- Implemented heap memory allocation and management as simplified standard glibc malloc, optimized performance with first-fit algorithm and linked-list
- Performed debug with GDB and Valgrind

Simple Blog

Android, Java, Google Firebase

September 2017 - December 2017

- Built an Android app to upload photos and comments with accessibility to camera and gallery
- Used the Google Firebase platform to store images and videos and enable real-time chat
- Performed unit testing with JUnit

EXPERIENCE

Software Engineer

Northern Uganda Literacy Project, Department of Economics of UIUC

March 2019 - Present

- Developed the style guide for data visualization, created dashboards with data analysts using Tableau
- Embedded charts in WordPress website and modified theme PHP code

Research Assistant

Discriminative Network Sampling

May 2019 - Present

- Train a prediction sampler to classify network models and study the effects of network sampling on network classification tasks
- Propose a learning framework that learns the best sampling strategy from a given class of network

SKILLS

- **Languages:** C++, Java, Python, JavaScript, PHP
- **Technologies:** Database System, Operating System, Networking, Website/Mobile App Development
- **Tools:** React, Linux, Git, AWS, Docker, WordPress, MySQL/MongoDB, JSON