Zian Ke

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Objective

- Looking for an internship position as full-stack developer in summer 2018. Willing to relocate.

Education

- **University of Michigan** — Ann Arbor, MI
  Bachelor of Computer Science; GPA: 3.8/4.0 — *September 2017 – April 2019*
- **Shanghai Jiao Tong University** — Shanghai, China
  Bachelor of Electronic and Computer Engineering; GPA: 3.5/4.0 — *September 2015 – July 2019*

Computer Skills

- **Languages**: JavaScript, Python, PHP, SQL, Java, HTML, CSS, C, C++, Matlab
- **Front-end**: React, Redux, Angular, jQuery, Bootstrap, Ant Design, Material-UI, Webpack
- **Back-end**: Flask, CodeIgniter, Node.js, Express.js, MySQL, SQLite, SQL*Plus, MongoDB, Nginx, Apache
- **Tools**: Git, Linux, VirtualBox, LaTeX, Adobe Premiere Pro, After Effects, Audition

Work Experience

- **Huawei Technologies Co., Ltd.** — Shanghai, China
  Full-Stack Web Developer — *April 2017 - December 2017*
  - Developed an Online Appraisal System using jQuery for front end and CodeIgniter MVC framework for back end, which enables employer or HR to create/buy and send questionnaires to employees for investigation and analysis.
  - Designed database schema and wrote MySQL DDL to support multi-level and multi-dimensional appraisal.
  - Applied Bootstrap to front end for elegant UI design and interactive widgets, and achieved responsiveness for multiple viewports such as smartphones and tablets with the help of Bootstrap's Grid system.
  - Reconstructed questionnaire creation page in Angular to avoid direct DOM modification and utilize data binding to handle the complex relation between question options' score and corresponding level in each appraisal dimension.
- **University of Michigan – Shanghai Jiao Tong University Joint Institute** — Shanghai, China
  Full-Stack Web Developer — *February 2016 - October 2016*
  - Developed a Teaching Assistant Recruitment System, where UM–SJTU JI students can apply for TA, professors can process these applications, and admins can manage lists of courses, students and professors.
  - Validated student's application form in front end using jQuery Validation Plugin to give instant feedback, and again in back end using CodeIgniter Form Validation library to protect database against malicious POST request.
  - Set up the website on Alibaba Cloud Elastic Compute Service by deploying a LAMP stack.

Project Experience

- **app.um-cssa.org**: Applications developed for University of Michigan Chinese Students and Scholars Association, including Rate My Professor, Freshman Handbook, Secondary Market, etc.
  - Developed front end using React, with Redux as state container, Ant Design as UI style theme, React Router as client-side router, React Motion and Ant Motion as animation design tools.
  - Fetched complete course and professor data from UM's official website using Python script with Regex search.
  - Implemented REST API based on Flask and SQLite, which receives AJAX requests and sends JSON strings, to provide user input autocompletion, process market item data, send UM student identity verification email, etc.
  - Deployed multiple React clients and Flask servers on Azure Virtual Machine by means of Nginx Reverse Proxy.
- **kezian.me**: Personal website deployed on AWS EC2 which displays detailed introductions and images of my projects.
  - Implemented server-side dynamic blog pages utilizing Flask and its full support of Jinja2 template.
  - Constructed website's home page based on MERN stack to take advantage of Material-UI components.
  - Designed reuseable React components and published package on NPM, e.g. react-stretchable-button, which provides complete APIs with clear semantics to satisfy the requirements of multiple usages.
- **Beverage Serving Robot**: Bluetooth controlled robot which adds beverage for guests.
  - Drew CAD of the robot using SolidWorks and produced its mechanical arms with 3D printing techniques.
  - Developed an Android app to communicate with the Arduino programmed robot by sending control signals to the robot's Bluetooth module and receiving status codes from it.
  - Won the Best Innovation Award at UM–SJTU Joint Institute 2016 Summer Design Expo.