

ZHUO(ZOEY) HAN

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EDUCATION

University of Southern California | Los Angeles, CA Aug 2017 - May 2019(Excepted)

M.S. Computer Science, GPA: 3.92/4.0

Shandong University | Shandong, China Sep 2013 - Jun 2017

B.S. Computer Science, GPA: 91.82/100, National First-Class Honor

WORK EXPERIENCE

Houzz | Santa Monica, CA May 2018 - Nov 2018

Software Engineer Part-time. Worked as full-stack developer at Marketplace team

- Migrated metrics data and stored new data via **SQL** scripts.
- Extended **Java** Server and built new APIs to support new requirements. Updated **AJAX**-based dashboard.

Software Engineer Intern. Focusing on improving advertiser experience via notification emails/seller center

- Implemented **AJAX**-based dashboard to support campaign information create/update, data visualization/analytic, report generate/download via **GraphQL** API and **React**.
- Extended **Thrift** definition and **Java** Server to support new database schema and retrieve reliable data/metric.
- Added yaml config and Java processor to send **Slack** Event.
- Built email template and reporting doc. Sent daily/weekly emails via **Python** (on production).

Presentia Ltd. | New Zealand Jul 2015 - Oct 2015

Web Developer Intern

- Build a customer-facing B2C website. Designed log-in and product responsive pages with **Bootstrap**.
- Managed third-party log-in and Optimized check-out page to increase users sign ups and boost check-out conversion Rates.

RESEARCH/PROJECTS

Travel and Entertainment Search Feb 2018 - May 2018

- Developed position-based Android app/web service and enabled keyword/catalog/distance search.
- Built **AJAX**-based responsive website supported pagination, animation, favorite list adding via **AngularJS**.
- Created auto-completion input, information/photo/route/review showing, social media sharing, based on Yelp APIs/Google Places APIs.
- Designed **RESTful** APIs with **Node.js** for HTTP requests, deployed on Google App Engine.

Web Search Engine Feb 2018 - May 2018

- Developed a search engine, supported spell checking, autocomplete and snippets.
- Created crawler to collect information based on **crawler4j**. Implemented inverted Index using **MapReduce**.
- Built solr-php-client to send query and return results with Lucene/PageRank strategies via **Solr**.

Bundle Optimization for Multi-aspect Embedding Sep 2015 - Jun 2017

- Designed and Implemented bundle optimization with **Tensorflow**, used Amazon Mechanical Turk(**AMT**) crowdsourced data to collect qualitative clustering queries, learn semantic similarity among images, infer latent aspects and embed into multi-aspects (in **Python**).
- Qualitative and quantitative comparisons on 4 synthetic datasets, a chair dataset with 6, 777 images rendered from chair category of ShapeNet, and etc. based on Normalized Discounted Cumulative Gain(NDCG) and achieved 96.3% on test dataset.

SKILLS

- Programming C/C++, Python, Java, HTML, CSS, JavaScript, PHP, Matlab, Pascal
- Frameworks/Platforms Node.js, AngularJS, React.js, Jinja2, Bootstrap, Thrift, Tensorflow, PyTorch
- Tools Git, Vim, Android Studio, AWS, Google Cloud, MySQL, Nginx, Tomcat, Unity, Photoshop