

ZHUBO DENG

1660 Pala Ranch Cir, SAN JOSE, CA 95133

650-772-2625

zhubodeng@gmail.com

New Grad **computer science** bachelor from **UCLA**, actively looking for **Full-Time Software Engineer**, willing to relocate.

Education

University of California, Los Angeles

B.S. in Computer Science

GPA: 3.97

Sep. 2016 to Jun. 2020

University of California, Los Angeles

B.S. in Mathematics of Computation

GPA: 3.92

Sep. 2016 to Jun. 2020

Work Experience

Software Engineer Intern at Space-Walker Inc.

Santa Clara, California

Jun. 2018 to Sep. 2018

- Created a Server-less based Spark Extract transform Load Workflow using **AWS Step Functions** and **Apache Livy** for building the Pluggable Engine. Being a big data problem, created Spark Application that involves writing code in **Python** and integrating the irrelevancy detection spark application with existing **ADP service** using **Java**
- Utilized **AngularJS** to develop a single page application and **Foundation UI framework** with **SASS** to create and customize the interface styling; Implemented a proxy server middleware using **Node.js** and **Express.js** to handle the communication between frontend application and backend server through **restful API**; worked with **restful API** of **Java Spring MVC** backend to perform **AJAX** calls

Software Engineer Intern at State Grid Corporation of China

Beijing, China

Jun. 2019 to Sep. 2019

- Designed, implemented and launched internal employee mobile app on both **iOS** and **Android** platform, developed by **Native Template** in an agile development team, scaling the server to 5000 users level by deploying on **AliCloud Service**.
- Added such features to the app: Text-to-speech, Speech recognition, Image recognition; Created Interaction-Handle driver of **Kiki robot** and built the server-client model among three ends: asynchronously routing network consisted of android app, robot and server with **Bazel**; Committed to extend **pyttsx3** git repositories to make it work normally with **Espeak** on **Linux**
- Optimized **Tacotron**(Google TTS Wavenet like) model on **Floydhub** to synthesize more human-like voice; Optimized the Convolutional Neural Network model for Image Recognition on **CUDA**, made it parallel computing 16 times faster on GPU

Research Assistant at UCLA Natural Language Processing Lab

Los Angeles, California

Jan. 2019 to Jun. 2019

- Collected data and organized results from 10,000 gender bias features, implemented the algorithm using posterior regularization, wrote the **Python** code that analysis the experiment results mathematically and created diagrams that easy to understand.
- Designed a dialogue system that includes components of NLU, Data Manager and NLG, wrote code and trained conversational line and dialogue generation model, developed an evaluation metric that evaluate the perplexity of utterances generated.
- Implemented multilingual unsupervised word embedding model with bilingual corpus, designed an algorithm that tracks historical semantic change, detected English loanwords from French and reborrowing patterns.

Projects

MiCard App

- Created a fully functioning **iOS** app using **Swift**, designed interfaces and interactions, evaluated their usability.
- Designed and implemented Augmented Reality app by **ARKit**, implemented machine learning with **CoreML**, published the app and generated the downloads.

Multiplatform Mobile App

- Developed a hybrid mobile app using the Ionic framework, **Cordova**, and **NativeScript**.
- Implemented **NoSQL** databases by using **MongoDB** within a **Node.js** environment and **Express** framework, communicated to client sides through a **RESTful API**.

Social Media Project

- Designed and developed a website using **Django**, used **Javascript** to interact with the sites on the front-end.
- Implemented HTTP requests, used **jQuery** to work with **DOM**, implemented a full models, views and templates structure for the site.

Publications

Zhubo Deng, Weijia Shi, Pei Zhou, Muhao Chen and Kai-Wei Chang. *Computational Analysis of French-origin Re-borrowing Process for English Loanwords*. In IEEE International Conference on Data Mining (ICDM) Workshop on Multilingual Cognitive Services (MLCS), 2019.

Skills

Language: C++, Java, Python, PHP, Javascript, Matlab, Swift, Go, R, Object-C, SQL

Front-end: HTML, CSS, Bootstrap, Reactjs, Angularjs, Vuejs, DOM, JQuery, Webpack, Browserify

System/Tool: Linux, Git, AWS, Xcode, Android Studio, Heroku, Nginx, GDB, Valgrind, Vim, Qt, Scrum, Spark, Native Template