

Ava Zhan

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Seeking a full-time software engineer position. I can start working IMMEDIATELY (OPT).

EDUCATION

University of California, Santa Cruz

Master of Science in Computer Engineering

Santa Cruz, CA

Jun. 2019

University of Chinese Academy of Sciences

Master of Engineering in Material Science

Shanghai, China

Jun. 2017

INTERNSHIP

University of California, Santa Cruz

Research Assistant

Santa Cruz, California

Oct. 2019 - present

- Built a classification model with a new loss function improving the average accuracy by 10%.
- Built a reactive classification [demonstration](#) website allowing users to move clusters or points by mouse and plot the training result in real-time. **AngularJs|HTML|CSS|Javascript**

Chinese Academy of Sciences

Research Assistant

Shanghai, China

Mar. 2014 - Jun. 2017

- Conducted data analysis and visualization of the collected data. **Python|Pandas| NumPy**
- Built a classification model using k-nearest neighbor, LSTM **TensorFlow|Keras**
- Published 5 peer-reviewed papers with [57 citations](#).

PROJECTS

[Java Web Development – Recommendation Engine for Events](#)

Feb. 2020- Jun. 2020

- Designed and implemented an interactive web page for users to search events on Ticketmaster and purchase tickets. **HTML|CSS|JavaScript**
- Improved **recommendation** (content and user based) based on search history favorite records
- Used Java servlets with **RESTful** APIs (Search, History, Recommendation APIs) and **MySQL** (user, history, event table) to store business data fetched from Ticketmaster
- Deployed to **AWS EC2**

[Python Django Full Stack Web Development and React](#)

Sep. 2018- Jun. 2019

- Built an E-commerce website with **MVC** model of Django
- Built **RESTful** APIs such as checkout, order-summary, product, add-to-cart, add-coupon, remove-from-cart, remove-item-from-cart, payment and request-refund
- Implemented front end view with **React** and store the data in **MYSQL**
- Integrated payment with Stripe API

[Computer Vision project : Optical Character recognition](#)

Jan. 2018- April. 201

- Built an IOS Application for blind users. **Swift**
- Recognized character and items in an image by using **Firestore MLkit API**
- Evaluated the accuracy of character recognition on 10,000 images. **Python|OpenCV**

[Natural language processing project: Chat bot](#)

Oct. 2017- Jan 2018

- Trained a chatbot on Cornell Movie Corpus (220,579 conversations) and daily dialog corpus (13,118 conversations) **Python/TensorFlow/ GPU**
- Improved the grammar and naturalness of the chatbot by optimizing the learning rate and the number of hidden layers.

SKILLS

- **Programming Languages:** Python, Java, C++, Swift, Javascript/ HTML/CSS
- **Database:** MySQL
- **Others:** AWS EC2, React, Angular, Google cloud platform, Django, Docker, Kubernetes, BigQuery
- **Certification:** Machine Learning with TensorFlow, Data Engineering with Google Cloud