

Hongyi Zhang

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🏠 University of California, Los Angeles

</> B.S. Computer Science

🎓 GPA: 3.79 GRADUATION: SPRING 2019

🔍 Interesting Projects & Summer 2018

SKILLS & LANGUAGES

Python Flask +
SQLAlchemy
Django
Scikit-Learn

JS Frontend
Vue.js
Angular
React/Redux
Ionic/Phonegap

Backend
Express
NodeWebkit

C++/C

Hadoop Hive
PySpark

Ruby Sinatra
Rails

HTML/ CSS Bootstrap
Foundation

misc.
Elixir, Docker, Git, CI/CD, Photoshop,
After Effects

AWARDS & ACCOLADES

Upsilon Pi Epsilon

(2016) ACM
Computer Science Honor Society

Dean's Honors List

(2015 Fall, 2016 Spring,
2017 Winter, Spring) UCLA

National Infocomm
Scholarship

(2013) Infocomm
Development Authority of
Singapore

Full Scholarship for Undergraduate
Studies

2nd Startup@Singapore

National University of
Singapore

Startup pitch competition in the
social enterprise category

WORK & PROJECTS



Software Engineering Intern

JUN 2017 - SEPT 2017

Adobe Systems Inc.

Marketing Cloud Content Platform/Search

researched and implemented semantic tag clustering pipeline and api in **python** using **word2vec**, **t-sne** and **approximate nearest neighbors search** on Adobe Stock search results. optimised pipeline for near-realtime clustering (**8-15s to ~0.5s**), and implemented new UX for improving search experience using an internal **react-like js** framework. presented work at division all hands with plans for product integration in the near future.

Assistant Online Director

OCT 2015 - CURRENT

Daily Bruin

bruinwalk.com popular UCLA course & professor review website

PM & Full Stack Developer for **Django** based web application w/**4000 daily unique users**. lead development team in creating, scaling and maintaining new features, and designing the architecture of the system.

online print archive a searchable web archive for daily bruin print issues

building new print archive using **flask** + **postgres** + **elasticsearch**.

enabled sorting by date and full text search for >10 years of PDF print issues in Google Drive.



Engineering Intern

JUN 2016 - SEP 2016

Singapore Telecommunications, Engineering and Innovation

database security proof of concept

used **vue.js** + **sinatra** to build a web application in order to explain and showcase **cryptdb's** capabilities and security benefits.

data ingestion for big data analytics for internal business data

built an ETL (extract, transform, load) pipeline in **python** to load data into **apache hive**. deployed **jupyter** + **apache toree** + **pyspark** to enable ease of data analysis in future. did literature review on big data security solutions.



Software Engineering Intern

FEB 2015 - SEP 2015

Tinkertanker

125andup.sg helping singaporeans find items on amazon that ships

added new features and more detailed analytics for **rails** based web application. built and shipped a **chrome extension** with >**1000 unique installs** using **react** + **jquery** + **webworkers** to integrate site functionality directly with amazon.



FREELANCE PROJECTS



Dragonboat Race Management System

JUN 2015 - JUL 2015

Singapore Dragonboat Association

SEA Games 2015 & DBS Marina Regatta

developed a comprehensive multi-user race management system using **angular.js** + **nodewebkit** backed by **(p/c)ouchdb's** distributed database to ensure resilience in flaky network situations. integrates with proprietary high speed camera systems. deployed for races in the 2015 South East Asian Games and the annual DBS Marina Regatta.