

# Hongyi Zhang

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🏠 University of California, Los Angeles

</> B.S. Computer Science

🎓 GPA: 3.85 GRADUATION: SPRING 2019

🕒 Full-Time SWE/PM Roles

## SKILLS & LANGUAGES

Python Django  
Flask  
Scikit-Learn  
Keras

Scala Akka-Http  
Lagom  
Slick

TypeScript/  
Javascript Frontend  
React/  
Vue.js

Backend  
Express

C++/C

DevOps Docker  
Rancher

HTML/  
CSS Bootstrap  
Foundation

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

## AWARDS & ACCOLADES

IRI Grant  
(2018) UCLA Internet Research Initiative  
Project grant for Kerckhoff

Upsilon Pi Epsilon  
(2016) ACM  
Computer Science Honor Society

Dean's Honors List  
(2015 Fall, 2016 Spring,  
2017, 2018) 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



Program Manager Intern  
Microsoft Inc.

JUN 2018 - SEPT 2018

### OS Security - Data Protection

gathered requirements and developed **functional and design specifications** for new BitLocker security feature. mapped out customer journeys and engaged with customers to investigate potential improvements in experience and reliability of BitLocker recovery.

Software Engineering Intern  
Adobe Systems Inc.

JUN 2017 - JUN 2018  
(remote, part-time in 2018)

### Content Platform, Image Search

researched and implemented a semantic tag clustering pipeline 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**).

### Adobe Cloud Platform

implemented libraries and scaffolding for event-sourcing micro-services in **Scala** using the **Lagom** and **Akka-Http** frameworks. designed and developed a CRUD service for data management using the **Slick** FRM.

Senior Staff / Assistant Online Editor  
Daily Bruin

OCT 2015 - CURRENT

**bruinwalk.com** popular UCLA course & professor review website

**PM & Dev lead** for **Django** based web application w/**4000 daily unique users**. designed architecture for the application stack, and built and maintained **Docker** based CI/CD workflow

**internal tools** building better tools for the newsroom ([github.com/dailybruin](https://github.com/dailybruin))

migrated legacy Django projects to Python 3 and Docker deployments. prototyped new print archive using **flask** + **postgres** + **elasticsearch**. developing new open source API-first CMS for digital first publishing.



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

built an ETL 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.



## FREELANCE PROJECTS



Dragonboat Race Management System  
Singapore Dragonboat Association

JUN 2015 - JUL 2015

### SEA Games 2015 & DBS Marina Regatta

developed a comprehensive multi-user race management system using **angular.js** + **nodewebkit** backed by (**p/e**)**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.