

Zachary Chao

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Education

University of California, Berkeley May 2020
B.A Computer Science cum. GPA 3.80
Upper Division: Efficient Algorithms, Linear Algebra,
Artificial Intelligence, Database Systems

Work Experience

CrossInstall May 2019 – Aug 2019
Software Engineer Intern

- Developing a time series monitoring system for tens of billions of data points using **Druid** and **Python**
- Developing a notification and ticketing system for anomalies surfaced with my system using **PHP**

CSPA Jan 2019 – May 2019
Software Engineer Intern - Machine Learning

- Developed a **dynamic data miner** for job postings across twenty thousand different company websites
- Used **natural language processing** to clean and extract relevant job information and a CNN to classify postings
- **AWS** RDS, SQS, S3, Spot Instances, Lambda, VPC, Node, Python, Tensorflow, **Puppeteer**

UC Berkeley Jan 2019 – May 2019
Student Instructor – Computer Science

- Tutor Berkeley students taking **C++**, **Java** and **Python**
- Grade quizzes, tests and projects as well as give verbal assessments to find and cover any gaps in knowledge

OnPointe Health Dec 2018 – Jan 2019
Software Developer Consultant

- Provided multiple proposals for smarter health analytics to apply machine learning to new Medicare payment models
- Once data is acquired the models will be implemented

MiraCosta College Dec 2017 – May 2018
Teaching Intern

- Worked with Professor Chapeton-Lamas to add software engineering paradigms to data structures and algorithms
- Designed more involved group projects giving students a deeper understanding of linked lists and BSTs
- The changes **increased** class retention rates by over 30%, integrated Trello, Slack, Github classroom and **SCRUM**

TourMega May 2017 – Aug 2017
Software Engineer Intern

- Worked on QA, **data mining**, database integration and other tasks for startup travel site
- Completed a project to make data mining twice as fast by moving selenium to cURL, also increasing the database size
- BitBucket, Git, **ROR**, Ruby, Postgresql, Asana and Slack

Personal Projects

DevLog May 2019 – Present
Devlog.at
Cofounder for a social media platform for developers

React JS, **Now**, **Hasura**, **Typescript**, **Micro**

Follow Miner May 2017 – Sep 2018
Followminer.org
Over 800 users. Instagram automation service through a **Google Chrome extension**. Provides dynamic feedback to improve an account.

HTML, **CSS**, **JavaScript**, **jQuery**, **Python**, **Heroku**

Competitions

SacHacks Nov 2018
1st place out of 400+ participants in a team of four. Security detection network using **image recognition** and block chain.

CalHacks Nov 2018
1st place out of 2400+ participants in a team of four. Visual tool using **augmented reality** and **object detection**.

General Motors Hack Oct 2018
2nd place out of 40+ participants in a team of four. **Natural language processing** and data science.

Extracurriculars

CSPA Exam Jan 2019
Score of 1460 – 98th percentile overall
99th coding proficiency and 99th full stack coding
<https://cspa.io/u/zachchao>

Data Science Society Jan 2019 – May 2019

- Committee member for Academic Development department
- Mentored teams of five through data science research projects which were later presented at a symposium
- Created and lead workshops for **machine learning** and data science

Weightlifting May 2013 – May 2016

- Ranked #1 in Southern California and #22 in nation by USAW
- Summer of 2015 training with Chinese Olympic team (Fuzhou China)