

# GEORGE L. ZENG

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## EDUCATION

**University of California at Berkeley** | GPA: 3.60

May 2019

Bachelor of Arts in Computer Science

**Relevant Coursework:** Data Structures and Algorithms, Computer Architecture, Artificial Intelligence, Efficient Algorithms and Intractable Problems, Cybersecurity, Operating Systems, Software Engineering, Databases

## PROFESSIONAL EXPERIENCE

### Hive

San Francisco, CA

*Associate Product Manager*

Jul 2019 – Apr 2020

- Facilitated development of content moderation product, including 4 state of the art computer vision models
- Aligned platform, serving and machine learning team requirements to safely deploy machine learning models to clients
- Generated 50% increase in demo API usage by restructuring small-deal sales pipeline with documentation and evaluation
- Planned 6 class redefinitions and 2 features, including drugs model by formalizing bi-weekly product sales sync
- Analyzed performance metrics such as precision, recall, threshold movement, manual mod rate to understand models
- Accelerated customer deliverable delivery by building python tools to process model outputs
- Diagnosed system issues with Postgres, RabbitMQ, Kibana, Marathon and triaged greater problems to relevant teams

### Axon Enterprise (TASER International)

Seattle, WA

*Artificial Intelligence Software Engineering Intern*

Jun 2018 – Aug 2018

- Owned and executed end-to-end machine learning project from data collection to training and experimentation
- Applied transfer learning to detect US drivers' licenses with ~48% precision/recall at .5 IOU threshold
- Upgraded YOLO's Tensorflow implementation to support validation datasets/accuracy and learning rate schedules
- Prioritized and designed project based on product requirements, use cases, and hardware capabilities
- Developed project pipeline to automate data collection, annotation, augmentation, increasing data by 8x
- Pitched and presented product idea to President of Axon

### Musicator iOS Application, simplifies audio playback for music related practice

Mar 2018 – June 2018

*Product Manager/ Software Engineer*

- Conducted user surveys to identify key features and customer pain points to design minimum viable product
- Designed and programmed version of application that supports file import, playback, temporal, and rate control
- Featured by Berkeley's iOS class in mobile application showcase

## PROJECTS

[GITHUB.COM/GEORGEZENG](https://github.com/georgelzeng)

### IoT RaspberryPi Lock (Ruby on Rails, Python Flask, HTML/CSS, SQL, RPi, Heroku) *Unlock apartment with phone* May 2020

- Designed/implemented full stack software and hardware system to unlock apartment door remotely without house keys
- Developed mobile Rails webapp with keyword-enabled user authentication, multiple user levels/permissions, usage logs
- Incorporated Flask RESTful backend server on RPi that supports immediate (GET) and scheduled (POST) door unlocks
- Constructed RPi device to switch power relay board with API call to provide door lock with needed voltage + current

### Portfolio Website (HTML/CSS/Javascript/React) *georgelzeng.github.io/portfolio*

Apr 2020

- Implemented and designed portfolio website with HTML, CSS, and Bootstrap to showcase personal projects
- Developed image carousel using React lifecycle mounting functionality and CSS animations

### File Store (Go) *Secure Client for Insecure Dropbox Clone*

Oct 2018

- Designed cryptographically secure file storage client that ensures integrity, authenticity, and confidentiality through HMAC
- Implemented IND-CPA functionality with adding users, sharing files, revoking access, and modifying files

## LEADERSHIP AND ACTIVITIES

### Phoenix Consulting Group

Berkeley, CA

*President/ Cofounder*

Apr 2016 – May 2019

- Cofounded organization dedicated to consulting for healthcare, biotech, and pharma firms in business strategies/operations
- Ensured quality of ~9 projects teams, increasing credibility to bring in clients such as Kaiser, Amgen, and Medtronic
- Established and iterated over objective candidate recruitment process, resulting in 75% expansion over 1 year
- Developed 6-week curriculum for incoming analysts, resulting in 25% decrease in analyst work revisions
- Led project for client, Kaiser Permanente, to increase efficiency of innovation, resulting in a repeat project

## SKILLS AND INTERESTS

- Languages: Mandarin Chinese (fluent) and Spanish (conversational)
- Programming Languages: Python, Java, Javascript, HTML5/CSS, Swift, C, SQL, PostgreSQL
- Interests: Machine Learning, Finance, Fitness, Hiking, Breakdancing, Snowboarding