

# GEORGE L. ZENG

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## PROFESSIONAL EXPERIENCE

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### Hive

San Francisco, CA

#### Product Manager

Jul 2019 – Apr 2020

- Facilitated development of 4 ML image classification models in moderation product: nsfw, violence, drugs, hate
- Identified 6 inconsistencies in model class definitions by consolidating common client complaints and common false negative/false positive model mistakes
- Shipped 2 new iterations of moderation models by leading team of 6 engineers and Hive platform specialists to gather 1 million+ images per model iteration, decreasing predictive errors by 10%+ on internal datasets
- Calibrated model precision/recall based on client use case to recommend client specific model thresholds
- Roadmapped development of drugs and hate models by collaborating with sales to gather client requirements
- Increased demo usage by 50% by updating API docs, simplifying API key access, streamlining demo walkthroughs
- Aligned serving & platform teams on latency/volume requirements, return format to safely deploy text model
- Built Pandas data pipelines for large-scale client demos to showcase model API performance on 5 million+ images
- Diagnosed system issues with Postgres, RabbitMQ, Kibana, Marathon and triaged problems to relevant teams

### Catalog

San Francisco, CA

#### Product & Engineering

Jun 2020 – Present

- Conducted and compiled results for 30+ user interviews and 5 shop interviews to guide product roadmap
- Designed and programmed front end components, including authentication, newsfeed, profiles
- Implemented backend data layer with Firebase Cloudstore to handle collections of consumers and stores

### Axon Enterprise (TASER International)

Seattle, WA

#### AI Software Engineering

Jun 2018 – Aug 2018

- Applied transfer learning to detect US drivers' licenses with ~48% precision/recall at .5 IOU threshold
- Upgraded YOLO's TF implementation to support validation datasets/accuracy and learning rate schedules
- Automated data collection, annotation, augmentation, to increase training data 8x
- Interviewed police officers on shift, resulting in a new product pitch deck to President of Axon

## EDUCATION

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University of California at Berkeley | GPA: 3.60

May 2019

B.A. Computer Science, Certificate in Entrepreneurship

**Relevant Coursework:** Product Management, Design Lab, Software Engineering, Databases, Algorithms

## PROJECTS

github.com/georgelzeng

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

- Developed Rails webapp with keyword-enabled user authentication, multiple user levels/permissions, usage logs
- Incorporated Flask RESTful 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 current to door lock

## LEADERSHIP AND ACTIVITIES

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### Phoenix Consulting Group

Berkeley, CA

#### President/Cofounder

Apr 2016 – May 2019

- Started pro-bono strategy consulting org for health/biotech/pharma firms including Kaiser, Amgen, Red Cross
- Established member recruitment process and new analyst training, resulting in 300% expansion over 2 years
- Led project for Kaiser Permanente to develop success metrics to identify early potential in innovation initiatives

## SKILLS AND INTERESTS

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- Languages/Tools: Python, Java, Javascript, HTML/CSS, PSQL, SQL, AWS, Jupyter, Git, React, Jira
- Interests: Fitness (lifting/calorie counting), snowboarding, day trading, tech insights (medium.com/@georgelzeng)