

# 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

## QUALIFICATIONS

**Languages:** Python, Java, C, Swift, Go, HTML, Javascript, Ruby, SQL, PostgreSQL

**Frameworks:** OpenCV, Pandas, Tensorflow, Keras, Scikit-learn, Rails

**Tools & Platforms:** IntelliJ, Pycharm, XCode, Git, Jupyter, Kibana, RabbitMQ, Marathon, AWS S3

**Personal Website:** georgelzeng@github.io

## PROFESSIONAL EXPERIENCE

### Hive

San Francisco, CA

Associate Product Manager

Jul 2019 – Apr 2020

- Built efficient Python Pandas tools to parse 10 GB+ CSV files to extract client insights and draw metrics graphs
- Analyzed production codebase to debug client issues and to understand internal platform systems
- Utilized Postgres, RabbitMQ, Kibana, Marathon to resolve system issues and to triage greater problems to relevant teams
- 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

### 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
- Detected US drivers' licenses with ~48% precision/recall at .5 IOU threshold with transfer learning + model updates
- Upgraded YOLO's Tensorflow implementation to support validation datasets/accuracy and learning rate schedules
- Increased data by 8x by developing pipeline to automate data collection, annotation, augmentation

### UC Berkeley Data Structures and Algorithms (CS61B)

Berkeley, CA

Lab Assistant

Jan 2018 – May 2018

- Empowered labs consisting of ~25 students by facilitating understanding of basic data structures/algorithms
- Analyzed code in student projects to assist in error identification and project debugging

## PROJECTS

GITHUB.COM/GEORGEZENG

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

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

### Entrepreneurs at Berkeley (Ruby on Rails) Club WebApp

Mar 2019

- Worked with 5 member team to build Ruby on Rails website within MVC framework
- Used ActiveRecord to manage a database of various user types, admins, superadmins, and regular members
- Built RESTful endpoint with Rails Router with several functions such as adding profile pictures, deleting users, etc.

### Musicator (Swift) iOS Application

Mar 2018 – May 2018

- Engineered application that reinvents musical practice experience by simplifying audio file manipulation
- Designed and programmed version of application that supports file import, playback, temporal, and rate control
- Integrated Spotify API in prototype, enabling account authentication and music search queries

### 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