GEORGE L. ZENG

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QUALIFICATIONS

Languages: Python, Java, C, Swift, Go, HTML/CSS, JavaScript, Ruby, SQL, PostgreSQL
Frameworks: React, Express, MongoDB, Node.js, Rails, Flask, OpenCV, Pandas, Tensorflow, Keras
Tools & Platforms: IntelliJ, Pycharm, VSCode, XCode, Git, Jupyter, Kibana, RabbitMQ, Marathon, AWS S3

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 problems to relevant teams
- Aligned serving & platform teams on latency/volume requirements, return format to safely deploy text model
- Identified 6 inconsistencies in model class definitions by consolidating common client complaints and common false negative/false positive model mistakes
- Increased demo usage by 50% by updating API docs, simplifying API key access, streamlining demo walkthroughs

Axon Enterprise (TASER International)   Seattle, WA
AI Software Engineering Intern (Python, OpenCV, Tensorflow, Pandas*)*   *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
- Upgraded YOLO's TF implementation to support validation datasets/accuracy and learning rate schedules
- Automated data collection, annotation, augmentation, to increase training data 8x

PROJECTS   github.com/georgelzeng

Personal Website: georgelzeng.github.io/portfolio

Catalog (JavaScript, React Native, Firebase) *Fashion browsing app, currently in development*   *Jun 2020 – Present*
- Designed and programmed front end components, including authentication, newsfeed, profiles
- Implemented backend data layer with Firebase Cloudstore to handle collections of consumers and stores

IoT RaspberryPi Lock (Ruby/Rails, Flask, HTML/CSS, SQL, RPi, Heroku) *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 door lock with current

File Store (Go) *Secure Client for Insecure Dropbox Clone*   *Oct 2018*
- Designed cryptographically secure file store client with integrity, authenticity, confidentiality through HMAC
- Implemented IND-CPA functionality with adding users, sharing files, revoking access, and modifying files

EDUCATION

University of California at Berkeley | GPA: 3.60   *May 2019*
Bachelor of Arts in Computer Science
Relevant Coursework: DS&A, Computer Architecture, AI, Efficient Algorithms, Cybersecurity, OS, Databases

LEADERSHIP AND ACTIVITIES

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

INTERESTS

- Fitness (lifting/calorie counting), snowboarding, day trading, tech insights (medium.com/@georgelzeng)