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/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

PROJECTS   GITHUB.COM/GEORGELZENG

Personal Website: georgelzeng.github.io/portfolio

iOS Shopping App (JavaScript, React Native, Firebase) *Fashion browsing app, currently in development*   *Jun 2020 – Present*
- Designed/built key parts of user flow, including authentication, newsfeed, and user profiles
- Implemented backend data layer with Firebase cloudstore to handle collections of consumers and stores

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

Entrepreneurs at Berkeley (Ruby on Rails, HTML/CSS, Heroku) *Club WebApp*   *Mar 2019*
- Led 5 member dev team to design/implement webapp for Berkeley club to help entrepreneurs find cofounders
- Scoped project requirements weekly with client and to distribute user features amongst team
- Implemented user authentication, multiple users levels/permissions, post/DM features, and user profiles
- Built RESTful application that enabled club relevant posts and user relevant features to be stored on online database

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

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
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 + 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

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