

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: React, Rails, Flask, OpenCV, Pandas, Tensorflow, Keras, Scikit-learn

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

PROJECTS

GITHUB.COM/GEORGEZENG

Personal Website: georgelzeng.github.io/portfolio

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 Web.App*

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

Musicator (Swift) *iOS Application*

Mar 2018 – May 2018

- Engineered application that reinvents musical practice experience by simplifying audio file manipulation
- Designed and implemented version of application that supports file import, playback, temporal control, 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

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

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