

Jonathan Hong

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>LANGUAGES AND TECHNOLOGIES

- **Proficient:** Python, Flask, Pyramid, PostgreSQL, SQLite3, SQLAlchemy, Splunk, Bash, Git, JavaScript, ReactJS, Pytest, Jest, Enzyme, Selenium, HTML5, CSS3, Webpack, Babel, Scikit-Learn, NumPy, Pandas, Seaborn
- **Exposure:** Ruby, AWS EC2, Jenkins, Spark, Java, Redux, Rails, Itsdangerous, Nodemon, Gulp, ssh

>PROFESSIONAL EXPERIENCE

Yelp | **Software Engineer, Intern** | **San Francisco, CA**

2017 - 2017

- Developed A/B test with a relative increase of reservation conversion by over 30%, and reduce user friction through testing the visibility of time slots row, "Notify Me" button, and "Search More Days" link, using ReactJS.
- Configured experimental YAML files in configs repository for dev, stage, and prod servers; wrote the server-side logic with Python and Pyramid; set up Google Analytics tracking for both cohorts.
- Created conversion metrics graph per week for each platform, and visualized an over 20% increase in reservations for the team's SEO campaign, by querying and joining relational and redshift databases with Splunk and SQL.
- Migrated 700-line test file from Sinon/Chai to Jest, Selenium, Pytest, and Enzyme, writing unit and integration tests for 100% of tickets.
- Managed branch workflow and deployment process for 15+ projects utilizing Git best practices and Bash.

Jirav | **Machine Learning Engineer, Intern** | **San Francisco, CA**

2016 - 2017

- Built machine learning models to predict 24-month forecast of revenues and expenses more accurately than the CFO prediction as a benchmark using Python, Scikit-learn, NumPy, and Pandas.
- Minimized loss function by implementing an ensemble, and visualized a tsplot of historical data points and predictions within a 95% confidence interval with PyFlux and Scikit-learn, Matplotlib and Seaborn.
- Configured and deployed a four-node Hadoop cluster with ssh access utilizing AWS EC2 and Bash.

Square | **Support Engineer** | **San Francisco, CA**

2015 - 2015

- Resolved 30 issues per day, maintaining an ongoing profile of >20 open bugs and issues, and contributing up to 10 feature requests on Kanban board.
- Allocated input from 2400+ customers into multiple levels of the company: engineering, risk, business services, compliance, sales, and management.

>PROJECTS

Clustering Customer Segments | **Machine Learning Engineer** | [code](#)

2016

Tool to find, understand and categorize customer buying patterns for companies to improve their delivery efficiencies.

- Improved efficiency by 20% by designing A/B tests to group perishable and non-perishable consumer items.
- Engineered features based on scree plot analysis using Python and matplotlib, and used scaled PCA and ICA to evaluate both the features' correlation and anti-correlation.
- Implemented K-Means and Gaussian Mixture Models, while adjusting centroid numbers, to compare between clustering methods.

Job Seeker Prediction | **Machine Learning Engineer** | [code](#)

2016

System for tech recruiters to predict engineers who are open to new job opportunities using Stack Exchange's 2016 data.

- Classified, trained, and predicted machine learning algorithm with random forest model to determine 33,000 engineers interested in a new job, with an F1 score of 0.88, utilizing Python, Numpy, Pandas and Matplotlib.

Flask API Skeleton | **Software Engineer** | [code](#)

2016

Open source scaffolding for web developers to quickly get a Python Flask RESTful API with LinkedIn integration deployed.

- Constructed RESTful backend skeleton to store usernames and LinkedIn data using SQLAlchemy and SQLite.
- Applied security features to allow logged in users to access URIs and serializing data with itsdangerous.

>EDUCATION

Machine Learning Nanodegree, Udacity

2016

B.S. Finance, University of Nevada, Las Vegas

2014

>ASK ME ABOUT

The aquaponics system I built; my favorite book "Tribal Leadership"; how I packed everything and moved to SF