

Yijian Zong

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Education

- **Bachelor of Science in Data Science, UCSD (3.77 GPA)** **2017 to Present**
- **Machine Learning Engineering “Nanodegree”** **2017 to 2018**
- **Full Stack Developer “Nanodegree”** **2016**
- **Android Developer “Nanodegree”** **2015**

Skills

Python, Java, IntelliJ, Junit4, R, Android, Pandas, NumPy, C, C++, Julia, Sklearn, Matplotlib, TensorFlow, Jupyter, SQL, Stata, Golang, JavaScript, HTML, CSS, Git, Markdown, Regex, JSON, AWS, Tableau

Work Experiences

Myers Media Group, LLC. Data Scientist & Software Engineer Intern, San Diego

- Conducted data analysis on client’s data and designed infrastructure using Docker to create an analysis environment with simplified configuration, debugging capabilities, and developer productivity that supported +20MM webpages analysis.
- Deployed machine learning using Adaboost and Support Vector Machine on AWS to analyze keywords from a managed database of size +300MM, and store processed data in SQLite.
- Initiated research about Macro SEO from +60 supported enterprises sites (include Expedia and HomeAdvisor) using Pandas in Jupyter Notebook and explored innovative ways to utilize Macro SEO.

KEXY Data & Analytics Researcher Intern, San Diego

- Create and manage the Predictive Ordering program for the KEXY Artificial Intelligence program.
- Utilize AngularJS, Big Query, Amazon SageMaker, KEXY, and Zoho CRM to construct platforms for customers’ attraction and retention.
- Convey insights of customers’ data from ETL process through data visualization and explanatory data analysis.

DopeNote Startup CEO & CTO & Founder, China

- Created a note-sharing platform that boosted learning efficiency and secured \$3,000 from crowdfunding using customer data analysis.
- Managed a team of 10 people and constructed an online platform with 500 subscribers within a week.
- Utilized SEO for traffic generation and Python for data wrangling to create business insights.

Projects

Chopin Composition Research Paper Independent, CA 04/18 – 06/18 (Python)

- Created two neural networks that managed to generate and classify Chopin’s music, with RNN loss less than 0.01 and CNN accuracy higher than 30%.
- Finetuned the pipeline and decreased the loss of LSTM generator by more than 200%.

Celebrity Card Game Independent, CA 06/16 (HTML, JavaScript, CSS)

- Created a star matching game on web page that has three difficulty levels: Easy, Medium, Hard.

DIY Google Map Independent, CA 11/18 (Java)

- Optimized shortest path search with heuristics and A star algorithm. Wrote benchmark algorithms Breadth First Search, Depth First Search, and Dijkstra to find shortest paths between different locations.
- Utilized disjoint set, path compression, and Kruskal algorithm to find the minimum spanning tree from the center location.

Twitter Data Wrangling Independent, CA 08/18 (Python, Jupyter, Pandas, NumPy)

- Queried 1000+ Dog Tweets using Tweepy API and assessed data by Pandas. Cleaned different datasets and merged into one single dataset that can be used for dog rating predictions associated with dog breed prediction using CNN.