Julius Fan

Data Scientist / Software Engineer

I recently graduated from the University of California - Santa Cruz with a B.S. in Computer Science and a Minor in Applied Math and Statistics. My main goal is to obtain a professional position in the tech industry utilizing my relevant experience, technical expertise, and problem solving skills

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EDUCATION

Computer Science / Applied Math and Statistics

University of California, Santa Cruz

09/2016 – 06 / 2020   *In-Major GPA: 3.38*

PROFESSIONAL EXPERIENCE

Software Developer Intern

Spigot Inc. ⬈

06/2019 – 06 / 2020

Achievements/Tasks

- Optimized revenue by 14% by integrating live analytic dashboard that displayed future prospects for each customer group.
- Utilized K-Means Clustering and Market Segmentation to improve user profiling efficiency.
- Leveraged Knowledge of Python, SQL, and C# to construct data processing pipeline for advertiser data fluidity.
- Debugged using VSCode Git Integration, AWS Redshift Clusters, and Linux Virtual Machines.

Business Intelligence Intern

Spigot Inc. ⬈

06/2018 – 09/2018

Achievements/Tasks

- Integrated quadrant modeling system for customers in order to improve lifetime value by 8%.
- Developed Python scripts to monitor Redshift databases to shift advertiser budget allocations.
- Communicated with team members to set up customer acquisition multi stage plan.

Machine Learning Intern

Genimous Technology ⬈

06/2017 – 09/2017

Achievements/Tasks

- Used Python Clustering methods to set filter parameters in order to detect over 92% of fraudulent clicks for clients.
- Implemented FTRL algorithm to improve click weighting of consumers.
- Developed server-side fraud checks in order to decrease unneeded spending by over 15%.

SKILLS

Coding (Proficient): Python, SQL, MSSQL, Java

Coding (Familiar): C#, C, Unix

Libraries and Tools (Proficient): Git, Numpy, Pandas, Excel

Libraries and Tools (Familiar): Sci-kit Learn, Jupyter Notebooks, MapReduce, Hadoop HDFS

PERSONAL PROJECTS

P.AI.NT (09/2018 – 12/2018)
- Used Logarithmic Loss functions to improve image style copying between paintings and images.
- Innovated new approach to traditional image styling algorithms.

GrubClub (09/2018 – 09/2018)
- IOS Application that allows for users to connect with other users using Yelp, Google Maps, and Facebook APIs.
- Designed to recommend the best restaurant to a group of friends with similar interests.
- Won Best In Show as well as Best Unique Algorithm at Hack Merced 2018.

ClusterFraud (08/2017 – 08/2018)
- Used K-Means Clustering Algorithm to detect fraudulent users.
- Used Python and wrote up analysis using Jupyter Notebooks.

ORGANIZATIONS

Web and Mobile Application Development Club (11/2016 – 08/2018)
President

Slug Gaming (09/2016 – 06/2020)
Officer / Organizer

LANGUAGES

English
Native or Bilingual Proficiency

Chinese
Native or Bilingual Proficiency