Julius Fan

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Education

University of California - Santa Cruz Santa Cruz, CA
B.S in Computer Science September 2016 - June 2020
Minor in Statistics In-Major GPA: 3.42

- **Relevant Coursework:** Software Engineering, Data Structures, Database Systems I/II, Operating Systems, Discrete Mathematics, Statistical Inference, Distributed Systems, Algorithm Analysis, Machine Learning
- **Activities:** Web and Mobile App Development Club (President), Strategy Card Game Club (Founder/President), Information Systems Management Association

Skills

- **Programming Languages:** Python, Java, C#
- **Front-End / Back-End:** HTML, CSS**,** SQL, Flask
- **Version Control/Tools:** Git, Numpy, SkLearn, Pandas, Tensorflow, Excel, Docker, Redshift, Jupyter, JSON, XML

Experience

Spigot Inc. Fort Myers, FL
Software Engineer Intern June 2019 - September 2019

- Increased quarterly revenue by 14% through creating a custom dashboard to display future customer prospect predictions.
- Improved User Profiling by utilizing K-means clustering and market segmentation to divide consumers into more manageable buckets.
- Constructed data processing pipeline using C# and SQL to provide information to the marketing department.
- Built a front-end to facilitate making complex search queries by other team members.

Spigot Inc. Fort Myers, FL
Business Intelligence Intern June 2018 - September 2018

- Improved Customer Lifetime Value by 8% utilizing a live quadrant modeling system to better model when and why customers would click.
- Shifted Advertiser Budget Allocations to reduce unnecessary expenditures by developing Python scripts to monitor AWS Redshift databases.
- Spearheaded multi-stage customer acquisition plans to allow for better retention rate using data analytics in order to drive action in purchasing customers that were more active earlier on.

Genimous Technologies Shanghai, China
Machine Learning Intern June 2017 - September 2017

- Filtered 92% of fraudulent clicks for clients by utilizing Python clustering methods to group bot accounts.
- Drastically improved ad revenue by implementing FTRL algorithm to adjust click weighting of consumers.
- Decreased quarterly spending by over 15% by implementing server-side fraudulent activity checks.

Coding Projects

COVID-19 Dataset Analysis

- Jupyter Notebook with thorough analysis of COVID-19 using John Hopkins University Dataset.

P.AI.NT

- Machine Learning Style Transfer Project to copy art styles across media.
- Combined traditional image stylization with Logarithmic Loss functions to attain higher cohesiveness.

GrubClub

- Hackathon Project built on iOS that allowed users to connect with friends and get a recommendation for local restaurants.
- Won Best In Show and Most Innovative Algorithm at Hack Merced 2018.

ClusterFraud

- Clustering implementation used in order to detect fake Youtube users based on public Kaggle dataset.