

# Julius Fan

Data Scientist / Developer / ML Engineer

I am currently a student at the University of California - Santa Cruz studying in Computer Science and Applied Math and Statistics. I expect to graduate with B.S. in Computer Science and a Minor in Statistics in the Spring of 2020. My interests include Brain Interfacing Technology, Game Theory, and using computers to better our everyday lives.

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## EDUCATION

### Computer Science, Applied Math and Statistics University of California, Santa Cruz

09/2016 – Present

GPA: 3.4

## WORK EXPERIENCE

### Software Developer / BI Intern Spigot Inc.

06/2019 – 09/2019

Fort Myers, FL

Advertising Technology and Marketing Company

#### Achievements/Tasks

- Identified, developed, and implemented analytic solutions to optimize customer targeting and database efficiency.
- Incorporated statistical and machine learning models for the purposes of customer segmentation and user profiling.
- Built AWS Lambda functions to process S3 data fields into end-to-end data processing pipeline written as a Python processor.

### ML / BI Intern @ Spigot Inc. Spigot Inc.

06/2018 – 09/2018

Fort Myers, FL

Advertising Technology and Marketing Company

#### Achievements/Tasks

- Led efforts to build better advertiser retention, issue rate, and lifetime value models
- Developed advertising monitoring Redshift/MSSQL databases to shift advertiser percentages 24/7
- Primary projects focused on revenue optimization, customer acquisition, and data visualization

### ML Intern @ Genimous Technology Genimous Technology

06/2017 – 09/2017

Shanghai, China

Mobile Internet Aggregation Company

#### Achievements/Tasks

- Developed software to detect fraudulent clicks for clients
- Researched Google's FTRL and Logarithmic Regression algorithms to develop click weighting technology
- Primary projects focused on ad fraud detection, analytics improvement, and customer profiling

## SKILLS

Redshift

Python

C#

AWS Lambda

AWS S3

MATLAB / Octave

SK-Learn

Numpy / Scipy

TensorFlow

SQL/MSSQL

Excel

Statistical Modeling

## PERSONAL PROJECTS

### P.AI.NT (09/2018 – 12/2018)

- Using a logarithmic loss function based off FTRL to better improve image stylization transfers between paintings and images. Based on the fast-transfer research of Ulyanov and Gatys.

## ORGANIZATIONS

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

President

### Slug Gaming (09/2016 – Present)

Officer / Organizer

## LANGUAGES

English

Native or Bilingual Proficiency

Chinese

Native or Bilingual Proficiency

## INTERESTS

Brain Computer Interfaces

Tennis

Game Theory

Machine Learning

Neurotechnology