

# Dan Crescimanno

Carnegie Mellon University  
Computer Science and Mathematics '12

## Profile

Extraordinarily knowledgeable about data science. Have created and shipped production models for over a decade. Frequently use scikit-learn, Tensorflow, pandas, SQL, C++, and a healthy dose of Javascript to ship models and deliver business value.

## Experience

### Senior Data Scientist at Human Security

Developed ML models for fraud detection across multiple industries, tailored to a variety of attack types. Implemented outlier detection to identify anomalous IP addresses based on historical abuse and heirarchical structure. Created extensive clustering models aimed at detecting unusual activities in user accounts.

Constructed finely calibrated ML models that use the entropy of timing events to detect and mitigate bot scraping attacks. Developed NLP models to classify web page requests based on path, http\_method, and volume to aid downstream detection.

May 2022 - Present

### Cofounder of Commit Swimming

Built a web and mobile platform using React, Meteorjs, and Cordova. Created a parser that extracts structured data from swimming workouts. Built a company that has 1500+ paying customers.

Built a mobile app that received 1.3 million page views in 8 days. Was featured by Meteorjs and asked to write a [blog post](#) about it.

Jan 2015 - June 2022

### Data Scientist at Civitas Learning

Rewrote company machine learning platform, which increased model build times from 9 hours to 30 minutes. Updated models for a couple institutions of higher learning including UPMC, and Valencia.

Wrote software that used a variety of features (last submitted assignment, student attendance), and tried to predict whether a student would finish the semester.

Feb 2014 - Jan 2015

### Quant at Old Mission Capital

Built tools that backtested trading strategies and found "betas" between different securities. Created tools that interfaced with our production trading system to compute edge, and fulfill real-time charting needs for our traders.

May 2012 - Feb 2014

## Details

[github.com/dcrescim](https://github.com/dcrescim)

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## Languages

Python

SQL

Javascript

C++

## Passions

Data Science

App Development

Algorithms

## Once Upon A Time

2nd place (national) Division A -  
ARML (Lehigh Valley Team) '07

2nd place (state) - PA Math League  
'07

Carnegie Mellon Teaching  
assistant for the following courses

Combinatorics  
Graph Theory  
Multivariate Calculus  
Symbolic Manipulation