

# Dawid Kluszczynski

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## Education

INTENDED GRAD: MAY 2022

### Computer Science + Statistics / University of Illinois Urbana – Champaign

**Honors:** Chancellor's Scholar, James Honors Scholar, Alumni Association Award

**Extracurricular Activities:** iRobotics Combotics Controls Captain, InSPIRE Outreach Director

#### Notable Projects:

Intelligent-Snakes

- <https://github.com/dawidjk/Intelligent-Snakes>
- Implemented Genetic Algorithm using Tiny-DNN in C++ to train 100 unique snakes

Terabyte Sort

- Sorted a terabyte of 64 bit integers using a self-built Raspberry Pi Cluster in Go
- Orchestrated cluster with Kubernetes over LAN to minimize latency and signal interference

**Technical Courses:** Algorithms & Models of Computation, Systems Programming, Numerical Methods, Database Design, Data Structures, Computer Architecture, Linear Algebra, Statistics & Probability I/II, Discrete Structures

## Experience

JUNE 2020 – PRESENT

### Software Engineering Intern / Dataminr - NYC

- I will be working on the backend of a conditional Boolean filtration system used to parse the output of ML models in order to send real time alerts to the appropriate customers.

AUGUST 2019 – PRESENT

### Software Engineering & Data Scientist / Caterpillar - IL

- Reimplemented Tableau using Python and Angular to improve computation and render time from 160 seconds to 0.5 seconds, while removing the need for Tableau licenses costing \$600,000 annually.
- Aided in designing Bayesian model in Python as tool for engineers to predict part fatigue failure trends
- Improved Computer Vision model training process with aid of novel synthetic data approach

MAY 2019 – AUGUST 2019

### Software Engineering Intern / Ayuda Care - CA

- Used Flutter and Node.JS to create a responsive multiplatform application adhering to Material Design standard
- Enhanced application user interface to target seniors by surveying about preferences and usage

APRIL 2017 – APRIL 2018

### Quantitative Research Intern / Digital Mosaic Capital - NYC

- Helped coordinate and guide development of automated Peer to Peer trading platform
- <https://tinyurl.com/digital-mosaic-capital>
- Wrote white paper detailing Peer to Peer loan default rate prediction (<https://tinyurl.com/dawid-p2p>)
- Co-designed boosted random forest algorithm to predict loan default rate and score loans with 88% accuracy

AUGUST 2016 – APRIL 2017

### Software Engineering Intern / LendingCalc - NYC

- Aided in designing web interface for trading platform with modern Material Design standards in Angular5
- Minimized server downtime by automating service startup and creating shutdown watchdog
- Improved team efficiency by implementing Agile style work environment

## Skills

Java, Android, C++, Python, C, C #, React, Angular, Dart, Flutter, Node.JS, GraphQL, MySQL, PostgreSQL, MongoDB, Unsupervised Machine Learning, R, MATLAB, Octave