

# Ryan Brandt

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## EDUCATION

### NEW YORK INSTITUTE OF TECHNOLOGY

MASTER'S IN DATA SCIENCE  
Dec 2021 | New York, NY

### IOWA STATE UNIVERSITY

BACHELOR'S IN COMPUTER SCIENCE  
Graduated: Dec 2019 | Ames, IA  
Sigma Chi Fraternity:

- Member
- Philanthropy Chair 2016: Worked with other fraternities and sororities to create and promote philanthropy events

## COURSEWORK

Object-oriented Programming (Java)  
Data Structures (Java)  
Advanced Programming Concepts (C,C++)  
Design and Analysis of Algorithms (Java)  
Operating Systems(C++)  
Functional Programming (Racket)  
Computer Architecture  
Software Testing (Java)  
Software Requirements Engineering (Java)

## SKILLS

### PROGRAMMING

Proficient In:  
Python • Java • Javascript  
C • C++ • SQL • Git

### TECHNOLOGIES

Full Stack:  
React • • HTML • CSS • Elasticsearch  
NoSQL • PostgreSQL • Flask • Pytest

Data Science:

Numpy • Pandas • Matplotlib •  
Scikit-Learn • Computer Vision in OpenCV  
• Tensor flow • Jupyter Notebook

## FUN FACTS

### INTERESTS

Entrepreneurship • Machine Learning • Investing

### HOBBIES

Music Production • Guitar/Piano • Lifting  
• Programming

## ENTREPRENEURIAL EXPERIENCE

### BRANDTS | FOUNDER

August 2017 - Present | New York, NY

- Total Sales to Date: \$530,000
- Running and growing my Amazon e-commerce business that sells used/new books. Inventory is sourced from online marketplaces and vendors and resold on Amazon for profit
- Eliminated hundreds of manual searching hours by developing a book finding program that searches online marketplaces
- Increased book finding accuracy by adding image recognition to identify listings with weak textual data
- Negotiated and closed multiple vendor deals that resulted in over \$100,000 in sales in the last two years
- Formed strategic partnerships with other Amazon sellers to work around selling restrictions
- Maintained a 92% positive rating by putting the customer first
- Created an end to end inventory/accounting management system.
- Data mined inventory/accounting data to optimize buying times and marketplace profitability

## TECHNICAL PROJECTS

### BOOK FINDER | PYTHON

Aug 2018 - Jan 2020 | Ames, IA

- Searches online marketplaces for under priced books that can be resold on Amazon. Text and image data are used to solidify a match in the database. Candidates for purchase are sent to the user via text message
- Periodically scrapes Amazon to update the database of 15,000 profitable books
- Technologies: Elasticsearch (NoSQL), OpenCV, Pytest Flask

### LARGE SCALE IMAGE SIMILARITY SEARCH | PYTHON, JS (REACT)

Dec 2019 - March 2020 | Ames, IA |

<https://github.com/rbrandt88/Vlad-Image-Search>

- Given a query image, returns closely matched images
- Can search 15,000 Amazon book images in ~ 1 sec
- Technologies: OpenCv, Scikit-Learn, Numpy, Faiss, Flask

### ROUGE-LIKE CONSOLE GAME | C, C++

Aug 2018 - Dec 2018 | Ames, IA | Academic Project

- Character based game where the player goes through a dungeon fighting different monsters and collecting power ups.
- Key features: cursor movement, save/load map, view inventory, wear/drop items
- Key Learning objectives: Object orientated programming, memory allocation

### INVENTORY MANAGEMENT SYSTEM | JS (REACT), PYTHON, SQL

Jan 2020 - Present | New York, NY

- Created an end to end solution for Amazon inventory and accounting
- Key Features: fast Amazon listing, custom repricing, business metric tracking, data mining research
- Technologies: React, PostgreSQL, Flask, Pandas