

# Ryan Martinez

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## **EDUCATION**

**University of Pennsylvania, School of Engineering & Applied Sciences 2018-2022**

*Bachelor of Science in Engineering in Computer Science*

**Ball State University - 2023-2024**

## **WORK & LEADERSHIP EXPERIENCE**

**University of Pennsylvania Philadelphia, PA** *Undergraduate Research Assistant for Dr. Wang* May 2020 – August 2020

- Worked on SparkINFERNO an Apache Spark based pipeline that helps identify genes related to neurological diseases including Alzheimer's Disease.
- Created python module that allowed for integration of external C program into the pipeline
- Documented code for future use

**Jobcase Inc. Cambridge, MA** *Data Engineering & Strategy Intern, Machine Learning Team*  
June 2019 – August 2019

- Helped design, build, and deploy machine learning platform for the company using tools such as TensorFlow, AWS, and Databricks
- Built neural network models using TensorFlow and analyzed business data to uncover insights.
- Co-led the setting up, structuring and documenting of company data lake for storage of business data

**School District of Philadelphia Philadelphia, PA** *Curriculum Manager & Coding Club Instructor*  
Sept 2018 – January 2021

- Oversaw communications between schools and coding club instructors
- Mentored and taught elementary & middle school students culminating in an end of semester project

**Penn Computer Science Society Philadelphia, PA** *Sponsorship & Jobs Committee*  
Jan 2019 – May 2020

- Collaborated directly with Faculty to bridge the gap between education and work
- Planned and hosted résumé workshops, 'Tech Treks' (trips to NYC and SF to visit tech companies), and interview panels

## **PROJECTS**

**Karma** – App for CIS 350 – Software Engineering

- Distributed-system food ordering app that allows vendors to simply upload a menu and customers to order ahead of time. Ideal for small local vendors such as food trucks
- Web-side (vendor side) implemented using JavaScript and Node Express, App-side (client side) implemented in Android (Java). MongoDB was used for database purposes.

**Twitter-Scraper**

- Java program that connects to Fox and NBC websites and a website that tracks Twitter trends.
- The program scrapes the websites and compares if Twitter trends appear in news titles and how similar top articles are across Fox and NBC.

## **LANGUAGES, TECHNICAL SKILLS & ACTIVITIES**

**Technical Skills:** Java, Python, SQL, TensorFlow, Apache Spark, Dart, Flutter, HTML, CSS

**Groups:** Delta Sigma Pi Business Fraternity