

EDUCATION

CHAPMAN UNIVERSITY

December 2023

Bachelor of Science in Computer Science, minor in Data Analytics

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Database Management
- Applied Business Analytics
- Data Comms/Computer Networks
- Algorithm Analysis
- Programming Languages

TECHNICAL SKILLS

- C++
- C
- C#
- Python
- Java
- MySQL
- Excel
- HTML/CSS
- JavaScript
- R

EXPERIENCE

DATA ANALYTICS INTERN

Torrance, CA

Wrecking Yard Baseball

May 2023 – August 2023

- Spearheaded a program driven by Python's pandas library to enhance the efficacy of hitting lessons by 50%
- Compiled 20 easily digestible reports to break down players' swing patterns, spray charts, and weaknesses containing
- Created 3 predictive models and algorithms utilizing R for future development and player evaluation
- Explored and learned about the latest baseball analytics technologies including K-Vest and HitTrax

RELEVANT PROJECTS

FANG ANALYSIS

Wrecking Yard Baseball

Python, pandas, ggplot

May 2023

- Performed a player evaluation utilizing Python and HitTrax to improve upon swing path and opposite field power
- Created 10 graphs using ggplot to identify weaknesses on outside pitches, resulting in mechanical changes that increased exit velocity on outside pitches by 10%
- Recommended a control-the-zone focused approach to in-game hitting approach to emphasize the player's current strengths

EFFECTIVENESS OF WEIGHTED TRAINING BATS

Wrecking Yard Baseball

Python, pandas, ggplot

May 2023

- Evaluated the exit velocities over a nine-month span of two high school players who have and have not used a training bat in private lessons in Python and HitTrax to understand its benefits on player development
- Constructed 7 graphs using ggplot to indicate an 8% increase in max exit velocity with training bats and a stagnation in max exit velocity without a training bat
- Invented a graphical aid named the "Goldilocks Zone" that indicated which batted balls had the perfect combination of exit velocity and launch angle to create an easy-to-understand visual for players to analyze

ZIPSCOUT

Hack at UCI

Python, API Calls, Bubble.io

February 2023

- Collaborated with a team of 4 to develop a real estate website with a Bubble.io frontend and Python backend
- Integrated 18 API calls from websites such as Zillow and Reddit to update the website in real-time
- Applied Python's Natural Language Toolkit to generate a sentiment analysis score for most popular cities in the US in order to gauge popular opinion in each city

PITCH EFFECTS IN 2022

Models in Business Analytics

R, baseballr, ggplot, Baseball Savant

December 2022

- Communicated and collaborated with a group of 4 peers to create a PowerPoint presentation based on MLB pitch data in April 2022
- Implemented linear, logistic, and lasso regression models on a dataset containing 690,000 observations with 92 variables utilizing R in order to find correlations between whiffs and all other pitch factors

LEADERSHIP AND ACADEMIC ACTIVITIES

- Computer Science Club, **Vice President** September 2022 – Present
- Chapman Club Baseball, **Treasurer** January 2021 – Present
- Fowler Talent Scholarship, Dean's Scholarship August 2020 – Present