Charles Young

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WORK EXPERIENCE

West Big Data Hub — **June 2022 - Present**
Data Science Intern — *San Diego, CA*
- Responsible for designing and developing the organization repository website from the ground up.
- Developed frontend in React and backend in Django, using a test-driven development workflow
- Developed and managed ETL pipeline for user-uploaded repositories
- Gained significant experience in Git, Selenium testing, and Javascript during the development process

Mathnasium of Milpitas — **September 2018 – May 2019**
Mathnasium Instructor — *Milpitas, CA*
- Personally tutored over 30 students in various subjects of mathematics up to univariate calculus
- Periodically assessed student proficiencies and developed tailored learning plans based on the results

Gyrfalcon Technology Inc. — **June 2018 – September 2018**
Machine Learning Intern — *Milpitas, CA*
- Proofread and revised multiple company patent applications prior to submission
- Trained several convolutional neural networks for inference testing (Jupyter, Python, TensorFlow)

PROJECTS

Randomness analysis of CS Crash
- Used paired t-test to find 10% house edge in gambling minigame CS Crash
- Scraped over 3 million data entries from online website using Selenium
- Utilized matplotlib and seaborn for data visualization

Super Auto Pets AI
- Developing AI to play the game Super Auto Pets (Evolutionary Strategy, Python)

Envirosense
- Developed environment monitoring sensor system (Firebase cloud storage, Android Studio)
- Won 3rd-place in the Northrop Grumman Challenge

RELEVENT COURSEWORK

- **Real Analysis I, II** – Math 140A + Math 140B
- **Linear and Nonlinear Optimization** – Math 171A + Math 171B
- **Statistical Methods and Enumerative Combinatorics** – Math 183 + Math 184
- **Hidden Data in Random Matrices** – Math 182

EDUCATION

University of California San Diego — **June 2023**
B.S. in Mathematics – Emphasis in Computer Science — *La Jolla, CA*
GPA: 3.55

SKILLS & INTERESTS

- **Programming Languages:** Python (Fluent), C++ (Proficient), SQL (Proficient), Java (Proficient)
- **Skills:** MATLAB (Proficient), Test-driven Development, Googling, Using Stackoverflow, Mandarin (Fluent)