

VIVIAN DAI

computer science student && programmer;

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EDUCATION

Cornell University

BS in Computer Science, Minor in Mathematics

Ithaca, NY

Aug 2019 – May 2023

- GPA: 4.10/4.0, Dean's List
- Courses: Data Structures, Object-Oriented Programming, Functional Programming, Discrete Structures, Linear Algebra, Probability and Statistics, Microeconomics

EXPERIENCE

Software Team Member

Cornell Electric Vehicles

Oct 2019 – Present

Ithaca, NY

- Assisted in implementing residual neural networks using PyTorch for an autonomous vehicle object-detection pipeline
- Designed and developed new CEV website
- Redesigned all team graphics and logos with a new, elevated team branding for recruitment and sponsorships

Discrete Structures Teaching Assistant

Cornell University

Sep. 2020 – Present

Ithaca, NY

- Held discussion sections, graded assignments, and answered class questions weekly for Cornell's Discrete Mathematics course

Coding Instructor

MakerKids

July 2020 – Aug 2020

Toronto, ON

- Taught computer science and robotics fundamentals to kids ages 5 - 13 with Scratch, Python, and Arduino

PROJECTS

Markov Horoscopes | *Python, NLP*

July 2020 – August 2020

- Developed a horoscope text generation application using Python
- Built a web-scraper using the BeautifulSoup framework for data collection of 4000+ past horoscopes
- Utilized a Markov chain model with memory of previous states to create realistic text generation

viviannndai.github.io | *HTML/CSS*

June 2020

- Developed a visually-appealing personal portfolio website with HTML/CSS

Pollack's Cavern Maze Game | *Java*

April 2020

- Adapted an optimized DFS walk for an algorithmic maze path-finding game
- Created a modified Shortest Path Algorithm to collect a maximum amount of gold while reaching exit within a number of steps

Alien Invaders | *Python*

December 2019

- Created a Space Invaders clone with custom features, game design methodology, and graphical interfacing using the Kivy framework

SKILLS

Languages: Python, Java, OCaml, HTML/CSS

Tools: Git, VS Code, Coq, Eclipse, Microsoft Office, Adobe Photoshop