

ARJUN BHALLA

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EXPERIENCE

NTT Data, Inc Summer 2018
Software Engineering/Security Intern
Current Position.

Cornell University Fall 2018
CS 4700 TA (Artificial Intelligence)
Upcoming Position.

Cornell University Fall 2017 - Spring 2018
CS 1110 Consultant (Python)
Held 4 hours of weekly help sessions and labs, and graded exams and projects for a class of over 500 students in a Python & programming fundamentals course.

Delta Tau Delta Fraternity Spring 2018 – Present
Treasurer
Managing a budget of over \$250,000 and performing weekly Budget Vs. Actuals analyses to track expenditure, cutting unnecessary spending by about 20% .

PROJECTS & CAMPUS INVOLVEMENT

Cornell Hacking Club Fall 2017 – Present
Treasurer
Compete in on-line security CTF challenges. (Previously member).
Team placed 6/1571 at NullCon HackIM, 83/2626 at GoogleCTF.
Solved challenges in the areas of Web Security, Binary reversing, and Steganography.

Chess AI Spring 2018
Co-Creator
Designed an AI to play Chess at ~1800 ELO.
Implemented Machine Learning methods to improve the state-space search engine using temporal difference learning with epsilon-greedy policies. This was completed in Python, using the UCI protocol.

Comparacter Spring 2018
Co-Creator
Created a movie/character recommendation system focused on text-based character attributes.
Built most of the character similarity metrics using NLP, and carried out most of the data pre-processing with Empath, NumPy, SKLearn.

Fire & Shadow Fall 2017 – Spring 2018
Co-Creator
Built a game from the ground up using Python.
Developed both basic and advanced game mechanics including movement, board interaction, HuD, and part of enemy AI.

EDUCATION

🎓 B.A. Computer Science
Cornell University
📅 May 2020
GPA: 3.458
Tanner Dean's Scholar
Minor in Mathematics

SKILLS

Programming Languages
Python, Java, C, Javascript, HTML5, CSS3, MIPS Assembly
Frameworks & Packages
Django, NumPy, React.js
Other
Git, Bash, LaTeX, Mathematica, Logisim
Spoken Languages
English, Hindi, Spanish, Mandarin (Conversational)

COURSEWORK

Previous:
CS1110:Intro to Python • CS2110:Data Structures & OOP • CS2800:Discrete Structures • CS2850:Networks • CS3410:Systems Programming • CS4300:Language & Information • CS4700/01:Artificial Intelligence/Practicum • Math 1920:Multivariable Calculus • Math 2930:Differential Equations • Math 2940:Linear Algebra • Math 4710:Probability

Current:
CS4820:Analysis of Algorithms • CS3110:Functional Programming & Data Structures • Math 3320:Number Theory