Grace Chen

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EDUCATION

Junior in Computer Science and Information Engineering Taipei, Taiwan | Sep 2020 - Present
National Taiwan University
GPA: 4.06/4.3 Class Rank: 26/133

Exchange in Faculty of Science and Engineering Groningen, Netherlands | Sep 2022 - Jun 2023
University of Groningen

WORK EXPERIENCES

GOOGLE LLC | Technical - Engineer Practicum Intern Taipei, Taiwan | Jun 2022 - Aug 2022

- Designed an solution to test coverage inconsistencies due to test flakiness or the fact that tests are skipped on certain builds.
- Connected Google App Engine, Google Cloud Platform, and Cloud SQL within a Python script to save the coverage reports for all ChromeOS versions and the overall coverage results.
- Built up a website that displays a line chart showing the consistent test coverage trend and gives the link to each coverage report along with its overall coverage percentage.

ACADEMIA SINICA | Research Assistant Taipei, Taiwan | Sep 2021 – Present

- Implemented the prisoner's dilemma model with reinforcement learning, where players update their strategies according to their previous experience instead of their neighbors' payoff.
- Implemented the coevolving network model where players play a prisoner's dilemma with the ability to adapt by using different strategies with different neighbors.
- Built up the pair approximation equations for the coevolving network model and used deep learning to predict the dynamics.

PROJECTS

SOCIAL CONTAGION SIMULATION MODEL Python
An implementation of the model in the paper *Beyond Social Contagion: Associative Diffusion and the Emergence of Cultural Variation (Goldberg, A., & Stein, S. K., 2018)*, in the purpose of studying how social contagion contributes to cultural variation.

DOODLE JUMP GAME Python, Pygame
Simple jumpy game Doodle Jump implemented in Python using Pygame. The game simulates jumping motions with simple physics formulas.

TODO LIST APP Python, Flask
A simple to-do list app used when logged in. The app allows users to add new tasks, edit or delete tasks, and mark tasks as done when finished. Users can also label, sort, or filter the tasks of the list according to the labels or due dates.

SKILLS

Programming Languages: C/C++, Python, SQL, Java, JavaScript, Haskell
Web Development: HTML/CSS
Technology: Git, LaTeX

RELEVANT COURSEWORK

Computer Science: Introduction to Computers, Introduction to Computer Programming, Data Structures and Algorithms, System Programming, Algorithm Design and Analysis, Operating Systems, Cryptography and Network Security, Network Administration and System Administration, Functional Programming
Artificial Intelligence: Foundations of Artificial Intelligence, Machine Learning, Architectures of Intelligence
Mathematics: Calculus, Linear Algebra, Discrete Mathematics, Probability