Joshua Regencia Nghe

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Education

Stony Brook University   **Stony Brook, NY**

B.S Applied Math and Statistics, 2nd major Information Systems | GPA: 3.46   *2022 - present*

- **Relevant Coursework:**, Data Structures and Algorithms, Discrete Mathematics, Survey of Probability and Statistics, Data Analysis, Database Design and Practice, Linear Algebra, Calculus 3, IT Project Management, Scripting Languages, Object Oriented Programming
- **Awards**
  - 2 year recipient Stony Brook Presidential Scholarship
  - Dean's List: Spring 2023, Spring 2024
  - AP Distinguished Scholar

Experience

Teaching Assistant - Stony Brook University

AMS210 - Linear Algebra, Prof. Lim

- Hosted office hours providing assistance to over 170 students with course material and questions on problem sets.
- Grading and evaluation feedback for over 680 assignments, in correspondence with Prof. Lim
- Proctored Exams

Classwork

Carbody Neural Network | CSE 337

Python, PyTorch, Matplotlib, Pandas, Scikit-Learn, Artificial Intelligence, Data Visualization, Machine Learning, Predictive Modeling

- Cleaned and re-encoded data from database csv file to numpy float tensors
- PyTorch model w/ three nonlinear hidden layers, forward propagation utilizes RelU activation
- Trained and tested model on converted data and created graph of learning rate.

Data Analysis | AMS 315

R, Data Analysis, Multiple Predictor Regression, Gene-Environment Interaction, Simulated Research Study

- Conducted study on synthetic data, predicting a model for gene-environment interactions up to 2nd order
- Multiple predictor linear regression to recreate statistical model that generated the data
- Large dataset w/ 1386 observations, 4 global variables, 20 genetic indicator variables, 1 outcome dependent variable.

Personal Projects

2048 Game Implementation

Python, Object Oriented Programming, Tile Based Games

- Recreated the popular tile based mobile game 2048
- Python module tkinter to create a user interface

SKILLS

Programming: Java, Python, R, Ruby, SQL, Bash, MS Access, Excel, PowerPoint, Word
Languages: English (fluent), Mandarin (proficient)
Interests: Fitness / Weightlifting, Skateboarding, Soccer, Volunteering
Clubs / Organizations: SBU Skate, Stony Brook Web Development Club, ColorStack
Misc: Jira, Confluence, Agile/ Scrum Methodologies, Project Management, Data Analysis, Statistical Testing