Timothy Martin Nicdao

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Education

- **University of Hawaii at Manoa** — Honolulu, Hawaii
  Bachelor of Science - Computer Science — *Aug 2018 - May 2021*
  Courses: *Operating Systems, Data Structures, Algorithms, Concurrent Programming, Networking, Databases*

Work Experience

- **University of Hawaii - STAR GPS** — Honolulu, Hawaii
  SQL Programmer — *Aug 2019 - Sep 2020*
  - **Query Optimization**: Optimized and refactored queries to increase speed by over 20% and facilitate readability.
  - **Reports Automation**: Created stored procedures to automate bursar reports.
  - **Scheduling System**: Implemented a scheduling system to coordinate meetings between faculty and students.
  - **Database Architecture**: Normalized tables to optimize read speeds as well as preserve referential integrity.

Skills Summary

- **Languages**: Python, C/C++, JavaScript, SQL, Bash, Java
- **Technologies**: Scikit-Learn, Keras, Pytorch, React, Pandas
- **Tools**: Docker, Git
- **Platforms**: Linux, Web, Windows
- **Soft Skills**: Problem-Solving, Adaptability, Communication, Teamwork, Time Management

Projects

- **CommonLit Readability - Evaluating text readability with transformers (Machine Learning, NLP, Deep Learning, Transfer Learning)**: Created a model to evaluate text readability/difficulty using Hugging Face Transformers. Tech: Python, Pytorch, Hugging Face
  Repository: https://github.com/TimothyNicdao/CommonLitReadability
- **CartRL (Reinforcement Learning, Deep Q-Learning)**: A reinforcement learning solution to the classic cart pole problem using Q-Learning with neural networks. Tech: Python, Pytorch.
  Repository: https://github.com/TimothyNicdao/CartRL
- **SeaCurrent - A multithreaded image processing app (Concurrent Programming, Multithreading, Image Processing)**: This app applies various image processing techniques to sea life images using multithreading techniques such as semaphores to split up jobs and speed up computation, all while preventing race conditions. Tech: Java, Maven
  Repository: https://github.com/TimothyNicdao/ics432imgapp
- **AniGAN (Generative Adversarial Networks, Deep Learning, Computer Vision)**: Created synthetic anime images using Generative Adversarial Networks. Tech: Python, Pytorch
  Repository: https://github.com/TimothyNicdao/AniGAN

Honors and Awards

- **Manoa Academic Merit Scholarship (Aug 2018 - May 2021)**
  This scholarship is awarded to students that have a completed a rigorous high school curriculum in the state of Hawaii with a minimum GPA of 3.5.
- **Moanalua High School Valedictorian (May 2018)**
  This award is given to students that have completed a rigorous curriculum and graduated with a perfect GPA of 4.0 or higher.
- **eCYBERMISSION National Finalist, NSTA, 2015**
  eCYBERMISSION is a web-based Science, Technology, Engineering, and Mathematics (STEM) competition for students. My team won for the west region and we were one of the five teams invited to Washington D.C to compete at a national level.