Monnan How

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GitHub
https://github.com/nanmon2001/
Portfolio
https://nanmon2001.github.io/myweb/

SKILLS

Daily-to-day: Python
Experienced: SQL, HTML5, CSS3, JS, Bash (Linux commands), C, Java, R, Excel, PowerPoint.

EDUCATION

University of South Carolina, Columbia, SC Aug '17 - May '19
Master of Science in Computer Science, GPA 3.7
National Cheng Kung University, Tainan, Taiwan Sep '10 - Jun '12
Master of Science in Material Science and Engineering, GPA 3.8

PROJECTS

My Web *- HTML5, CSS3, Javascript*
A responsive portfolio website, which has more details description about me.

LA Job Bulletin Analysis in Kaggle *- Python (libs: re, pandas, matplotlib, seaborn)*
EDA on 683 job posts, heavy work on data wrangling. One of the major challenges is to populate a structured dataset from piles of unstructured text data.

Artificial Intelligence Pacman game (in-class) *- Python*
Implement DFS, BFS, UCS, A*, MinMax, alpha-beta pruning, algorithms to solve search and planning problems. I designed a fast heuristic function that expand 50% less in A*. Eventually built an intelligent agent utilize ML (Q-Learning).

Compiler Construction (in-class) - *C, GNU flex, yacc/bison, bash (shell)*
A C code compiler. Built and tested on a Linux machine.

Billing Interface Linkable Library (in-class, group of 3) – *Java, Junit*
A student profile database API, where users of different identities can log in, check their profile, tuition, and make a payment. Practice SDLC starting from writing good documentation (SRS, test plans) to design, implementation, and test cases/test suites.

EXPERIENCE

uPI Semiconductor Corp., Milpitas, CA *- Data Modeling intern* Aug '19 - Present

- Improve engineer's productivity by coding programs to help data processing by Python.

TSMC, Tainan, Taiwan *- Process Engineer (Thin film area)* Oct '13 - Oct '16

- Saved 80% chief engineer time on recipe management by building a dashboard.
- Model and build a process fine tune prediction table that has 80% accuracy by MLR.