Mark Lucernas

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RECENT PROJECTS

GAME OF GENERALS | GITHUB | LIBGDX, JAVA, JAVASCRIPT

- 9x8 strategy board game with cross-platform support as well as competitive AI implementation and online multiplayer gaming designed using MVC pattern.
- **LibGDX** rewrite of my first iteration **java-game-of-generals**.
- Implemented single player gameplay powered by Minimax Algorithm, with online 2 player gameplay through Socket Programming.

MARKLUCERNAS.DEV | GITHUB, MARKDOWN, HTML, CSS, JAVASCRIPT

- Personal static website blog inspired by Niklas Luhmann's Zettelkasten with over a hundred posts.
- Displays interactive 2D and 3D Force-Graph displaying posts' uplinks and backlinks connection in a neuron-like structure.
- Posts written in Markdown with in-line HTML that is autogenerated to HTML with static resources. Powered by srid/neuron.
- Implemented RSS feed and per-post comment section with Disqus.

EZ-INSTALL | GITHUB | LINUX, BASH SCRIPTING

- Unix/FreeBSD package installer purely written in Bash.
- Implemented in a make-like install system that tries to install dependencies first before the main target package, with added pre/post installation process support and automatic reporting.
- Implemented a flexible built-in package generation system with pre-generated bash script templates.

GROUP PROJECTS

THE WIZARD | GITHUB | JAVA

SDCCD | Miramar College

- Test-driven, MVC design pattern oriented top-down shooter game.
- Develop the graphics of the game as well as unit test via JUnit 5.
- Manage project repository and libraries.
- Designed overall project architecture.

WORK EXPERIENCE

U.S. NAVY | SR E3

2018 - 2019 | Great Lakes, IL

- Advanced Electronics Computer Field bootcamp recruit.
- Held leadership positions.
- Top 2 Division in the whole training group.

EDUCATION

SDCCD

transfering to UCSD in Fall 2022

UNDERGRADUATE MAJOR IN COMPUTER SCIENCE

2019 - 2023 | San Diego, CA

Cum. GPA: 3.9 / 4.0

Honors: Dean's Lister 2015 - 2016

SELF-EDUCATION

Udemy | edX | MOOC

COURSEWORK

UNDERGRADUATE

ARM Assembly
Data Structures and Algorithms
Advanced Java Course
Advanced C++ Course
Data structures and Algorithms
Unix, Software Tools, and Scripting
Calculus I & II
Statistics
Public Speaking

SELF-EDUCATION

edX - Harvard CS50's Introduction to Computer Science
Udemy - Complete Python Bootcamp
Udemy - Introduction Artificial Neural Network and Deep Learning
Udemy - Linux Shell Scripting

SKILLS

TECHNICAL SKILLS

Exceptional:
C++ • Java • HTML • CSS • JavaScript
Unix/POSIX • Shell Scripting • Vim • MVC
Proficient:
Python • C • C# • SQL
Familiar:
Agile • ARM Assembly • Lua • Raspberry Pi

SOFT SKILLS

Outstanding:
Bilingual Communicator (Tagalog, English)
Discipline • Teamwork • Interpersonal Skills