Mark Lucernas

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RECENT PERSONAL 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.

WEBSITE PROJECT | GITHUB | HTML, CSS, JAVASCRIPT

- Designed and created static webpages.
- Implemented with Bootstrap library and CSS Grid layout approach to handle dynamic screen resizing for content images.

TERMINAL APPLICATION SCRIPTS | GITHUB | BASH

- **Dotfiles Manager** and **Local Github Repositories Manager** bash utility scripts.
- Designed and created bash scripts for managing and syncing dotfiles and local github repositories

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.

IPS GROUP INC. | Parking Meter Assembler/Technician

2017 – 2018 | San Diego, CA
- Assemble parking meters from scratch.
- Troubleshoot and update old parking meter models and replace malfunctioning electrical parts.
- Trained new recruits.

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
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:
Java • C++ • HTML • CSS • JavaScript
Debian/Ubuntu • Bash • Vim • MVC
Proficient:
Python • C • SQL
Familiar:
Agile • ARM Assembly • Lua
Raspberry Pi

SOFT SKILLS

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