

Mark Lucernas

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EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO (2022-2024)

BACHELOR'S DEGREE IN COMPUTER SCIENCE

Current Cum. GPA: 3.8/4.0

Expected Graduation Date: June 2024

SAN DIEGO COMMUNITY COLLEGE DISTRICT (2019-2022)

ASSOCIATE DEGREE IN COMPUTER SCIENCE

Cum. GPA: 3.92/4.0

Honors: Dean's Lister

SKILLS

AI • Agile • Bash scripting • C • C++ • CSS • C# • Docker • Github • HTML • Java • JavaScript • Linux/Unix • Lua • MVC • MongoDB • Neo4j • Python • Raspberry Pi • React • SQL • TypeScript • Vim/Neovim

WORK EXPERIENCE

UCSD DERCONNECT | SOFTWARE DEVELOPER INTERN | REACT, DOCKER, NEO4J, MONGODB, PYTHON

Aug 2022 – PRESENT | San Diego, CA

- Developed and greatly improved PLUGS website UI/UX by introducing MUI React framework and improving backend service data throughput performance by about 6000%.
- Designed QR code sticker and automated sticker generation for Bert devices with scripting, saving hundreds of hours of manual labor.
- Worked with researchers in generating data visualizations and data analysis for research papers and presentations.

U.S. NAVY | SEAMAN, E3

2018 – 2019 | Great Lakes, IL

- Advanced Electronics Computer Field (AECF).
- Held Leadership positions responsible for 80+ fellow recruits in a division that earned 2nd place out of 50+ divisions.

NOTABLE PROJECTS

FORTUNE TELLING | [GITHUB](#) | TEAM LEAD | HTML, CSS, JAVASCRIPT, AGILE

April 2023 – June 2023 | San Diego, CA

- Led a team of 10 students in developing a fortune telling web application using Agile methodology for UCSD CSE 110 Software Engineering.
- Organized and delegated tasks to team members, and managed the development of backend components.

MARKLUCERNAS.DEV | [WEBSITE](#) | HTML, CSS, JAVASCRIPT, THREEJS

- Personal static website blog inspired by Niklas Luhmann's Zettelkasten with over a hundred posts. Implemented RSS feed and per-post comment section with Disqus.
- Displays interactive 2D and 3D Force-directed graph displaying in a neuron-like structure.

EZ-INSTALL | [GITHUB](#) | LINUX, BASH SCRIPTING, JSON, MAKE

- Unix/FreeBSD package installer purely written in Bash for portability.
- Implemented in a make-like installer system with added support for hook scripts and smart reporting.

GAME OF GENERALS | [GITHUB](#) | LIBGDX, JAVA, JAVASCRIPT, AI, MVC, SOCKET PROGRAMMING, NETWORKING

- 9x8 strategy board game with cross-platform support as well as competitive AI implementation and local 2 player gaming designed using MVC pattern and Socket Programming.
- LibGDX rewrite of my first iteration `java-game-of-generals`.