

Mark Lucernas

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EDUCATION

SDCCD (2019-2022)

AD-T COMPUTER SCIENCE

Cum. GPA: 3.92/4.0

Honors: Dean's Lister 2015 - 2016

UCSD (2022-2024)

BACHELOR'S DEGREE COMPUTER SCIENCE

SKILLS

C++ • Java • HTML • CSS • JavaScript • Python • C • C# • SQL • Neo4j • Linux • Bash scripting • Vim • MVC • Agile • ARM • Assembly • Lua • Raspberry Pi

WORK EXPERIENCE

UCSD DERCONNECT | SOFTWARE DEVELOPER STUDENT INTERN

Aug 2022 – PRESENT | San Diego, CA

- Greatly improved web ui frontend of P.L.U.G.S. website by introducing Materials UI React framework to the team and solely integrated the framework from scratch.
- Automated QR code generation for Bert plugs devices with python scripting.

U.S. NAVY | SEAMAN RECRUIT, E3

Nov 2018 - Feb 2019 | Great Lakes, IL

- Advanced Electronics Computer Field bootcamp recruit.
- Leadership position responsible for fellow recruits. Top 2 Division in the whole training group.

PERSONAL PROJECTS

MARKLUCERNAS.DEV | [GITHUB](#) | MARKDOWN, HTML, CSS, JAVASCRIPT

- 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-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.

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.

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.