Maxwell Olmen

https://www.linkedin.com/in/maxwellolmen/ • maxwellolmen@gmail.com

EDUCATION

University of Illinois at Chicago | Bachelor of Science in Computer Science   Aug. 2021 - Dec. 2024
- GPA: 3.32/4.00
- *Merit Tuition Scholarship*

SKILLS

C | C++| Java | Python | C# | SQL | Git | Maven | Sysadmin

PROJECTS

"Minecraft" Server Suite | JAVA, SQL, GIT, JENKINS, MINECRAFT API, SYSADMIN   Apr. 2016 - Dec. 2020
- Used Java to build up and maintain a full-fledged video game server suite for players to join, utilizing an existing video game API to interact with players.
- Dealt with updates, feature requests, version control, and several projects that were executed in teams of several developers. Several platforms were used to organize production, such as Jenkins, GitLab, and Phabricator.
- The suite expanded upon a simple video game server by utilizing MySQL, web-hosted forum websites, and hooks into the popular chat platform Discord.
- Controlled operations by learning System Administration and using a headless, virtually-hosted Linux-based system, exclusively via terminal.

Arduino Digital Board Game | C++, ARDUINO, CIRCUITRY, PRODUCT DESIGN   Mar. 2023 - May 2023
- Worked with a team to build a digital version of the board game "Othello".
- Utilized existing tools to program two Arduino microcontrollers, in order to operate the game and manipulate LED outputs based on user inputs.
- Learned and utilized techniques for wiring various hardware components, including organizing serial communication between several microcontrollers.

Online Variant Chess Game | REACT, JAVA, MAVEN, SQL   Jan. 2023 - May 2023
- Worked with a team to develop a full-stack web game.
- Utilized agile methodologies and Scrum to organize workflow.
- Used React to build an efficient frontend platform.
- Used Java to build a backend, communicating with React via Websocket protocol.

Chicago Transit Authority Statistics | PYTHON, SQL, MATPLOTLIB   Sep. 2022 - Sep. 2022
- Built a program that executes SQL queries and reads results within a Python environment.
- User inputs data and the data will be used to fetch an SQL query which would retrieve data into Python data structures.
- The program also generates graphs to show the total number of people who rode certain CTA lines throughout any year. There are 9 commands which may compare two CTA lines within a year and graph it, retrieve 10 most popular lines, etc.

EXPERIENCE

Technical Intern III, Embedded Software Engineering   Jan. 2024 - Aug. 2024
BAE Systems, Inc. | Cedar Rapids, IA
- Wrote embedded software for GPS receivers.
- Handled extensive testing mechanisms, such as unit testing, test scripting, and documentation of formal requirement verification.
- Utilized Agile methodology to organize tasks and allocate time.

Delivery Driver   Feb. 2022 - Nov. 2023
Lou Malnati's Pizzeria| Chicago, IL
- Planning and executing efficient driving routes, while verifying the various urgencies of different orders.
- Proficiently communicating with customers when problems arise with deliveries.