Ivan Volkov

Personal Info

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Education

University of Maryland Baltimore County, MD   May 2023
BS / Computer Science

Summary

Software engineer with 5 years of development experience, specializing both in java and in using nonsensical attention grabbing phrases in their resume. Eager to work together with peers who don't mind SQUARE RECTANGLES as well as who enjoy solving intricate problems.

Skills

Programming: Java, Python, SQL, HTML, CSS, Javascript, ReactJS
Other: Git, Linux Administration, Docker, Kubernetes, Nginx
Soft Skills: Amicable, Detail oriented, Security minded, Communicative

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Projects

Linear Chess
- An autochess genre multiplayer game where players build chess AI, developed in Java + ReactJS.
- Backend evaluates games and exposes a public REST API.
- Frontend allows client interactivity in a stateless manner.
- Utilizes: Java Spark, JUnit, ReactJS, HTML/CSS.

Radio Scanner
- A communications library designed for secure bidirectional use, developed in Java.
- Exposes an intuitive event listener pattern API for ease of use.
- Uses AES encryption to quickly and securely transmit data over TCP.
- Relies on RSA keypairs to protect the network in the event of a partial compromise.
- Utilizes: Java, JUnit, Sockets, RSA / AES encryption

Meme Search Bot
- Allows users to search through crowdsourced sorted media, developed in Python.
- Media URLs + comments are scraped and stored in a local SQLite database.
- Higher densities of the search terms in comments are used to pick relevant media.
- Discord integration allows discord users to search for specific topics from within the client.
- Utilizes: Python, SQLite, Discord API.

UMBCraft
- A dockerized minecraft network made for university students, with modifications developed in Java.
- Uses a MySQL database to store player permissions as well as server-specific data.
- Dynamically deployable server instances from in-game through the Docker Swarm API.
- Utilizes: Java (incl. Spigot), Docker, MySQL, RHEL.

Professional Experience

Pool Operator *at RSV Pools*   June 2019 - August 2022

- Lifeguarded at a large public pool for 4 years and held a managerial position for 2 years.
- Drafted weekly schedules and managed daily operations for over 25 lifeguards.
- Consistently took over management for multiple pools on short notice.