Joshua Guevarra

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Education

University of San Francisco | San Francisco, CA   Aug 2020 - May 2022
B.S. - Computer Science

Relevant Coursework: Data Structures & Algorithms, Software Development, Object Oriented Programming, UX Design, Computer Architecture, Operating Systems, C and Systems Programming, Linear Algebra & Probability, Discrete Mathematics, Calculus & Analytical Geometry I - III

Skills & Technical Tools

Languages: Java, Groovy, C/C++, HTML/CSS, SQL

Technologies: Micronaut, jQuery, Regex, Figma, Gradle, Git, Spring Boot

Projects

Generic Data Fetcher (Openprise) | *Groovy, Micronaut, jQuery*   Jan 2022 - May 2022
- In a team of four, developed a full-stack application to fetch and convert files containing variously formatted data to CSV format and upload the files to Google Drive or Amazon S3.
- Followed the microservice architecture to implement backend services of downloading a file to local disk and converting the data in the file to CSV format with UTF-8 encoding.
- Utilized JQuery to parse HTML tables and lists from a webpage for additional supported data formats in the application.
- Created an object oriented database to be able to store user configuration input from the front-end to a JSON file of class objects.
- Connected all backend services together in order to complete the application's end-to-end connection.
- Reviewed and tested other team members' code via pull requests to locate potential bugs before integration.
- Delivered weekly updates in team meetings to review completed work and discuss future goals

Memory Allocator | *C*   Jan 2022 - May 2022
- Created a custom memory allocator by reimplementing malloc, calloc, realloc, and free functions in C.
- Tracked memory regions by using a linked list of free and used memory blocks.
- Implemented free space management algorithms in order to correctly split memory blocks for reuse.

Search Engine | *Java*   Aug 2021 - Dec 2021
- Developed a multithreaded in-memory inverted index to store alphabetically sorted word stems, locations, and positions within a file.
- Implemented capabilities to perform exact or partial searches in the inverted index.
- Created a HTTP web crawler using sockets to traverse and parse valid URL links on a web page.
- Designed a dynamic front-end using Jetty, Servlets, HTML, and the Bulma CSS Framework.
- Wrote 2207 source lines of Java 17 code (SLOC) and 1506 lines of Javadoc comments.
- Refactored via 9 code reviews using pull requests, issues, and Github Actions to improve code quality.

Experience

TopGolf | *Caddie (Shift Lead)*   Jun 2021 - Sept 2021
- Served drinks to guests and assisted them with additional requests as needed.
- Led the floor team in opening, maintaining, or closing floor operations.
- Fulfilled other tasks as given by floor managers.