

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

Technical Skills

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

Framework & Libraries: Spring Boot, Spring Data JPA, Spring MVC, Micronaut, JUnit, Mockito, AssertJ

Build Tools: Maven, Gradle

Other: jQuery, Regex, GitHub

Projects

Portfolio Website | *Java, HTML, CSS, Spring (Boot, MVC, Data JPA), PostgreSQL, JUnit, Mockito, Maven* May 2023

- Designed and developed a dynamic and responsive multi-page portfolio website, using HTML, CSS, and Spring Boot, with a focus on strengthening proficiency in web development and backend programming.
- Utilized Bootstrap framework and custom CSS to create a visually appealing and modern user interface.
- Implemented the backend functionality of the portfolio website using Spring MVC frameworks, adhering to the Model-View-Controller (MVC) architecture for efficient separation of concerns, and leveraging the Dependency Injection pattern for loose coupling and improved maintainability.
- Leveraged Spring Data JPA to integrate a PostgreSQL database, enabling efficient storage and retrieval of contact form entries for improved functionality.
- Enabled seamless management and persistence of contact form entries in a PostgreSQL database through the implementation of comprehensive CRUD (Create, Read, Update, Delete) operations.
- Implemented email notification functionality using Spring Mail and GMail SMTP, allowing prompt communication and response to any user inquiries.
- Developed comprehensive test suites using JUnit, AssertJ, and Mockito, along with an H2 in-memory database in order to thoroughly verify the functionality and reliability of the website's Service, Database, and Controller layers.

Generic Data Fetcher (Openprise) | *Groovy, Micronaut, jQuery, Gradle*

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.

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.