Oliver Yasuna

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Summary

Results-oriented Java and C++ programmer with a GitHub full of comparable projects. Utilizing modern libraries such as the Java Streams API and C++ STL develops strong coding habits. Currently a full-time Computer Science undergraduate, with the goal of becoming a software developer.

Education

Massachusetts Bay College, Wellesley MA
Associates Degree, Computer Science, Expected 05/2021

- **GPA:** 3.956
- **Honors:** Dean's List (Fall 2020), Dean's List (Spring 2020), Dean's List (Fall 2019), Phi Theta Kappa (Honor Society)
- **Activities:** Peer Tutor & Embedded Tutor (Spring 2020), Programming I Teacher's Aide (Fall 2019), STEM Mentor Program
- **Relevant Coursework:** Data Structures, Database Management Systems, Programming II (directed study[1]), Programming I, Computer Architecture & Assembly Language, Honors English II

Technical Skills

Languages: Java, C++, SQL, JSON, Regular Expression, LaTeX
Concepts: Object-Oriented Programming, Data Structures, RESTful APIs
Tools: Maven, Git, IntelliJ IDEs, Word, Excel
Frameworks/Libraries: Vaadin, Hibernate, JPA, Spring, Google Drive API, Google Sheets API, Apache Commons Lang, Google Guava

Experience

Perthera, Inc., Holliston MA   12/2020 – Present
Software Developer Intern

In addition to the responsibilities during past employment at Perthera, Inc.:

- Individually wrote a database to Google Spreadsheet translation. This, in the form of a RESTful API, queries a MySQL View I wrote, translates the result to CSV, and imports this data into a Google Spreadsheet.
  - The endpoint runs periodically, updating the Spreadsheet with changes in the MySQL View and logging such changes.
  - Used the Google Drive API and Google Sheets API.

Perthera, Inc., Holliston MA   05/2020 – 08/2020
Software Developer Intern

- Software development with Java—backend RESTful APIs and frontend UI.
- Individually rewrote an entire application's frontend with Vaadin 8 and some backend.
- Individually updated projects with Ant/Ivy build systems to Maven.
- Programmed interoperability between databases of different forms. I.e., importing data from one model to another, with a mix of Java and SQL. Used JSON for input parameters and output.
  - For example, I wrote a RESTful API to match data between a MySQL database and HubSpot with a confidence algorithm, import some into HubSpot, or update the database.
- Used SQL and MySQL with triggers and views.

Massachusetts Bay Community College, Wellesley MA   01/2020 – 05/2020
Peer Tutor & Embedded Tutor

- Tutored students enrolled in Programming I and Basic Math through Calculus I.
- Acted as a resource and guide to students struggling academically.
- In-class tutor for Programming I labs.

ALARM Robotics, Franklin MA   12/2019 – Present
Software Development Mentor

ALARM Robotics is a registered team in the FIRST Robotics Competition. Teams of high school students and adult mentors have six weeks to build a competitive robot.

- Mentored high school students interested in programming.
- Introduced programming concepts to mentees, such as Object-Oriented Programming, Data Structures, API usage, and basic embedded software design, with Java.

Massachusetts Bay Community College, Wellesley MA   09/2019 – 12/2019
Teacher's Aide – Programming I

- Assisted in introducing <u>Object-Oriented Programming</u> to students with applications in <u>Java</u>.
- Assisted students with lab projects.
- Checked students' lab projects.
- Was taking the course at the same time and employed on day three.

BNY Mellon, Westborough MA   04/2018 – 08/2019
Shareholder Specialist II

In addition to responsibilities as a Shareholder Specialist:

- Individually wrote and designed training documents for the Data Cleaning team.
- Tasked with training and monitoring new members of the growing Data Cleaning team.
- Updated 5+ client customer support documentation on demand.
- Tracked and reported Data Cleaning performance numbers.
- Communicated directly with clients.
- Handled systems access for new employees in the Brokerage/Retirement Accounts Customer Service department.

BNY Mellon, Westborough MA   11/2017 – 04/2018
Shareholder Specialist

- Responsible for handling high-volume financial orders for multiple clients.
- Processed, researched, and quality checked trade requests.
- Contacted mutual clients as need be.
- Data cleaned for wholesaler contacts. Assisted the lead in training, monitoring, and activity reporting on new employees.
- Proficient use of <u>Excel</u> and CRM software.

Personal Projects

Hyper   01/2021 – Present

Personal project for financial management. Aggregates and analyzes financial information from multiple sources, including bank, brokerage, 401(k), IRA, 529 Plan, and insurance accounts, credit cards, and loans. Provides utilities to analyzes transactions and trades.
This application utilizes the following concepts, tools, and frameworks:

- <u>Spring</u>: As the <u>Java</u> EE application framework in general and for <u>RESTful APIs</u>.
- <u>Hibernate</u> & <u>JPA</u>: For modeling and mapping relational data between a MySQL database.
- <u>Vaadin</u> 14: For the front-end user-facing interface.
- Tomcat: As the container for applicable Servlets.
- <u>Object-Oriented Programming</u> & <u>Data Structures</u>: As is with the <u>Java</u> programming language.

It is currently under development and the source is not public. I am happy to discuss it further.

Gimme DOM   07/2020 – 08/2020

This is a <u>Vaadin</u> 8 extension, written in <u>Java</u>, enabling developers to have more control over the web DOM. It provides functionality to register listeners for most DOM events and assign DOM elements' properties and style from the server-side. In summary, this project provides an API for <u>Vaadin</u> developers to directly access the generated DOM content in real-time.

<u>Java</u> String   11/2019

Library containing a clutter of string manipulation and parsing functionality.

- Case modifier: e.g., `snake_case` to `camelCase`.
- String tokenizer: uses <u>Regular Expression</u>. Basic use of <u>Object-Oriented Programming</u> and <u>Data Structures</u>.
- Miscellaneous string utilities: e.g, anagram and palindrome algorithms, and <u>Regular Expression</u> `indexOf` implementation.

Volume Command   11/2019

Simple command-line utility written in <u>C++</u> for high-level audio device configuration. This uses the Win32 API `IAudioEndpointVolume` interface, which I wanted to learn more about.

Links

Website: https://oliveryasuna.github.io
LinkedIn: https://linkedin.com/in/oliveryasuna
GitHub: https://github.com/oliveryasuna
GitHub (from my childhood): https://github.com/maniadevelopment

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[1]Completed the course with a specialized agreement between the Professor and Dean. The course was accelerated and required no class attendance.