

# Victor Ezendu

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## SUMMARY

Recent computer science graduate with a strong academic background and practical experience seeking an entry-level position to apply technical skills and contribute to innovative projects in the field of computer science.

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## EDUCATION

### Bachelor of Science in Computer Science

University of Manitoba. • Winnipeg, Manitoba • 04-2024

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## SKILLS

**Programming Languages:** Python, Java, C++, C, SQL, HTML, Assembly, JavaScript, Prolog

**Tools & Technologies:** Git, GitHub, Android Studio, MySQL, HSQL, VsCode, DB Browser, Eclipse, IntelliJ IDEA, RESTful API, AGILE methods

**Frameworks & Libraries:** Flutter, jQuery, Chart.js, Bootstrap, Indexed DB, Java Swing

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## PROJECTS

### Application Development

University of Manitoba

- Designed and formatted pages of food tracking app using Android Studio Code.
- Used JAVA to write methods for page functionalities and unit tests.
- Worked together with teammates to implement HSQL database for storing food and exercise data.
- Responsible for writing multiple SQL queries and methods to utilize database in application.
- Used GitHub for effective collaboration.

### Multi-threaded Web Server Development (Python)

- Development of a multi-threaded web server in Python capable of retrieving files from a filesystem by accepting GET and HEAD HTTP requests.
- Implemented threading to handle multiple client connections concurrently, optimizing server performance and responsiveness.

### Database Programming

University of Manitoba

- <https://docs.google.com/document/d/1h2xfkDhyHY9rPnpjUhhigySAXwWa6FKsTkYtZSX89xM/edit#heading=h.rc4o3ht91fj3>
- Worked together with 3 students to create java Graphical User Interface for navigating video game database.
- Worked together to acquire data Set, merge tables, create relational model, find functional dependencies, and normalize data set.
- Responsible for writing and optimizing SQL queries for database.
- Used Java Swing package to create GUI for selecting and running queries on database.

### Twitter-Like API Development (Python, JavaScript)

- created a Twitter-like API multi-threaded web server.
- Integrated a two-phase commit (2PC) database system to enable dynamic web content retrieval.
- Utilized JavaScript's XMLHttpRequest tool for user authentication, tweet retrieval, posting, and updating functionalities.

### Website Prototype Development

University of Manitoba • <https://aryan2000sp.github.io/HCI-Project-V2/index.html>

- Worked together with 3 students to create a high-fidelity user website prototype.
- Used bootstrap, jQuery, Chart.js to design website and Indexed DB to store data.
- Tested prototype with random individuals, received feedback and made deviations to website design for better product.

### Blockchain Peer Development (Python)

- Designed and developed a blockchain peer using Python for storing messages in blocks.
- Utilized UDP to send messages to peers in the network, facilitating decentralized communication.
- Implemented consensus algorithms between blocks from other peers through UDP communication to agree on and validate the blockchain.

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## COURSEWORK

**Data Structures and Algorithm, Object-Oriented Programming, Database Implementation 1 & 2, Software Engineering, Operating System, Distributed Computing, Intro to AI**

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