

Chester Don Valencerina

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[Website Portfolio](#) | [LinkedIn Profile](#) | [GitHub](#)

Education

Algonquin College

Computer Programming

Ottawa, ON

2024 - 2026

- Applied database architecture, web application development, and basic Bash scripting in a Linux environment within a virtual machine.

University of Baguio

Computer Science

Baguio City, PH

2021 - 2023

- Analyzed different algorithms efficiency through Big O, Big Ω , and Big Θ notations to evaluate time and space complexity for optimal performance.

Technical Skills

Coding Languages

- Java
- JavaScript
- PHP
- SQL
- HTML
- React
- CSS
- Excel

Tools

- Linux
- VMWare
- Scrum/Kanban
- Git/GitHub

Certifications

- CCNA: Introduction to Networks certification
- Fundamentals of Agile Project Management

Projects

Relational Database Management System (RDBMS) Design

March 2025

Guitar Collection Management Database (Oracle SQL, Microsoft Access)

- Designed and implemented a comprehensive Guitar Collection Management Database using Oracle SQL, featuring robust data models for guitars, accessories, and maintenance logs, optimizing data integrity and query performance critical for business intelligence applications.
- Developed intricate schema relationships and implemented historical tracking for data changes through database views and triggers, enhancing data auditing capabilities and enabling historical data analysis.
- Collaborated effectively within a team environment, applying Agile principles for database schema evolution and feature integration, ensuring a scalable and maintainable data management solution ready for business analytics.

Object-Oriented Java Application

April 2025

Recipe Management System (Java)

- Developed a scalable Java application using object-oriented programming principles, utilizing encapsulation to demonstrate strong composition and modular, maintainable design suitable for large system product development.
- Implemented robust data processing pipelines using Java for dynamic parsing and loading of recipe datasets from "recipelist.txt", incorporating advanced error handling for data integrity.
- Applied architectural best practices, including rigorous separation of concerns (UI, business logic, data models), to ensure a highly scalable, testable, and maintainable codebase, facilitating future enhancements and collaborative development efforts in a data-centric application.

Full-Stack Web Development

March 2023

bakery website (PHP, JavaScript, HTML/CSS)

- Implemented a secure and dynamic e-commerce website, implementing robust login authentication using PHP with encrypted password hashing for both administrator and client user roles.
- Developed role-based access control functionalities, integrating PHP for server-side logic and HTML/CSS for a user-friendly interface, enhancing security and user experience.
- Led a cross-functional development team, leveraging Agile methodologies for iterative sprints, efficient project planning, and continuous integration, ensuring successful and timely delivery of the web application.
- Applied front-end optimization techniques for improved site performance, including semantic html and responsive design principles.

Experience

Freelance Website Design

February 2024

- Designed and developed responsive websites tailored to client requirements, utilizing HTML/CSS, JavaScript, and PHP.
- Enhanced user engagement and brand consistency by manipulating photos and creating custom digital illustrations, graphics, and data charts, contributing to visual data insights.
- Collaborated closely with clients through agile-inspired feedback loops to gather detailed project specifications, manage expectations, and iteratively deliver customized web solutions that achieved strategic business objectives.