

# BOB JOSHUA QUILACIO

Developer

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## PROFILE

A computing science student dedicated to learning developing user-friendly, feature-rich, and interactive software/web applications. Leverages strong analytical skills to deliver easy-to-maintain, scalable, and clean code.

## FEATURED TECHNICAL PROJECTS

### Budgeting App (ASP.NET / C#)

Spring 2021

Budgeting App is an ASP.NET Core MVC web application that helps you track your personal finances, budgets and expenses.

- + Utilized EF Core to manage and work with SQL Server database.
- + Implemented Tailwind CSS for styling.
- + Managed Authentication and Authorization with ASP.NET Identity.

### Budgeting App (Django / Python)

Winter 2021

The concept of this CRUD application is similar to the project mentioned above.

- + Utilized Django Object Relational Mapper to interact with SQLite3 database.
- + Implemented Bootstrap for styling.

### Sudoku Backtracker (Python)

Fall 2020

An algorithm written in Python that solves sudoku puzzles using backtracking.

- + Created a function that checks if it is safe to assign a number to a specific cell.
- + Created a recursive function that checks whether an assignment of a number leads to a solution.

### Möbius Plotter (.NET / C#)

Fall 2021

A .NET application that generates a Merten's Conjecture graph using the Möbius function.

- + Assisted a USRA project that focused on the LLL Algorithm and Merten's conjecture.
- + Employed ScottPlot – an open-source plotting library for .NET – to generate a graph based on the output of the Möbius function.

### Team Galo BJJ (GatsbyJS / JavaScript)

Winter 2022

The official website of Team Galo BJJ – a local Brazilian Jiu-Jitsu gym in Edmonton.

- + Built using GatsbyJS to maximize Search Engine Optimization.
- + Handled API requests by sending GraphQL queries to retrieve data.
- + Employed Sass and Framer Motion for animations and styling.

## LANGUAGES, TECHNOLOGIES, & SKILLS

Python3 // C# // JavaScript // TypeScript // Git  
ASP.NET // React // Django // HTML5 // CSS3

## EDUCATION

### BSc - Major in Computing Science

University of Alberta

GPA

Sept 2021 to Present

3.8 / 4.0

### Open Studies

Grant MacEwan University

GPA

Jan 2021 to Apr 2021

4.0 / 4.0

### Electrical Engineering Technology

NAIT

GPA

Jan 2018 to Dec 2019

3.9 / 4.0

## RECOGNITION

### ASET 2021 Capstone of the Year Finalist

★ Featured in Fall 2020 Copy of Technology Alberta

- + Created a Capstone project that focused on integrating a Programmable Logic Controller and Variable Frequency Drive into a parallel chain drive conveyor.

## BUSINESS PROJECTS

### Founder

HIMO | Web Studio - May 2021 to Present

- + Managing a creative web studio based in Edmonton, AB. Specializing in responsive and modern web design and development, as well as photography/videography services.

## WORK EXPERIENCE

### Junior Electrical Project Estimator

Phoenix Energy Services - Feb 2020 to Sept 2020

- + Estimated electrical labour costs, material costs, and indirect costs for wellpads, pipelines, electrical houses, and power stations through interpreting documentation, specification, and design blueprints.
- + Utilized strong communication skills while working with electrical suppliers, manufacturers, sub-contractors, and engineers to obtain competitive material pricing.

## INTERESTS

Photography and Videography

Powerlifting

Backpacking