# Barath Srinivasan

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Home: 647-692-6843 Cell: 647-554-6962

[LinkedIn](mailto:LinkedIn) [bsriniv1@my.centennialcollege.ca](mailto:bsriniv1@my.centennialcollege.ca)

A meticulous Junior Software Developer, skilled with object-oriented programming, testing

and database management. An effective communicator with the ability to explain complex technical issues.

## SUMMARY OF QUALIFICATIONS

* Student of Software Engineering Technology Advanced Diploma program at Centennial College
* A fast-learner who uses strong analytical and critical thinking skills for problem-solving
* Work well independently or as part of a team with strong team and client service skills
* Languages: English, Telugu, Tamil, French

## TECHNICAL SKILLS

* **Languages:** C#, Java, HTML/XML, Rational/WebSphere, Python, Golang, JavaScript, CSS
* **Technologies:** J2EE, Oracle, MS-SQL Server, Unix/Linux, Microsoft’s .NET, PostgreSQL, Git, Docker,PL-SQL, OpenCV, Keras, TensorFlow, CVAT
* Knowledgeable in Rich Internet Applications, mobile computing, software security & backend development
* Skilled with user-oriented interface design, knowledge of SDLC and Agile/Scrum practices

## EDUCATION

**Software Engineering Technology (Co-op) Advanced Diploma** Sept. 2021 – December 2024

Centennial College, Toronto, ON

## *Related Courses:*

Programming I, II, III IT Project Management

Software Engineering Methodologies Networking Technologies

Web Services Programming Advanced Web Applications Development

Advanced Database Concepts Software Security

Systems Integration Software Testing and Quality Assurance

*Project Work Includes:*

* Designing a software program that allows for editing of different types of documents, including compilation and debugging, and information management
* Design and deploy a database to Oracle database using MS-SQL
* Developed a bug clicker game using HTML, CSS and JavaScript
* Created multiple projects in web application development

## SELECTED PROJECTS

**SimpleBank (GoLang, Docker, PostgreSQL, VS Code)**

* Designed a database using diagram.io
* Generated codes using SQLC and Golang to talk to the DB in a consistent and reliable way using transactions
* Understood the DB isolation levels, and how to use it correctly in production
* Ran test by generating test cases in Golang
* Implemented server-side data validations along with authorization for all CRUD operations

**Python Data Frames - English Premier League** June - July 2022

* Loaded csv files into panda data frames
* Ran queries to organize teams that had the most wins each season
* Ran queries to find a particular teams best record that they played
* Used matplotlib to organize data and present it in graphs, comparing the goals that each team scored for a particular season

## RELEVANT EXPERIENCE

## Software Engineering Research Assistant Healthcare Systems R&A Inc May 2023 -August 2023

* Researched and developed computer vision algorithms for pose estimation and landmark detection.

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* Implement and optimize pose estimation and landmark detection models (MobileNetV2, ResNet50) using deep learning frameworks such as TensorFlow, Keras, or OpenCV.
* Collect and preprocess datasets for training and testing pose estimation and landmark detection models.
* Train, fine-tune, and evaluate pose estimation and landmark detection models using both synthetic and real-world data.
* Collaborate with cross-functional teams, including software engineers and data scientists, to integrate pose estimation and landmark detection algorithms into larger systems or applications.
* Continuously analyze and improve the performance and accuracy of pose estimation and landmark detection algorithms.
* Stay up to date with the latest research and advancements in computer vision, pose estimation, and landmark detection fields.
* Document and communicate research findings, algorithm designs, and implementation details effectively to technical and non-technical stakeholders.

**Robotics Instructor** Envision Robotics, Toronto, ON Oct. 2022 - Present

* Teach children how to program basic block-based programming
* Assist children with CAD designs and 3D printing
* Setup and prepare lessons for children on EV3, Lego and 3D CAD design
* Support design of lessons for school’s fieldtrips and assist to print out multiple 3D prints
* Manage classes of up to 25 students.

## ADDITIONAL EXPERIENCE

**Sales Associate (Part time)** July 2020 - Jan. 2021

Walmart, Toronto, ON

* Provide quality customer service to individuals from diverse backgrounds
* Assist customers with locating and selecting merchandise
* Acquired knowledge of the products in the skis and bikes department quickly
* Handled cash transactions accurately and efficiently

## PROFESSIONAL REFERENCES

John Mackinnon- Founder and Owner at Envision Robotics

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