

Shivam Saravanakumar

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SUMMARY OF QUALIFICATIONS:

- **Languages:** Java, Python, JavaScript, HTML/CSS, and VBA
- **Libraries:** OpenCV, PyGame, Java Class, Matplotlib, Pandas, Numpy, AWT Library, Matlab
- **Developer Tools:** PyCharm, Eclipse IDE, VS Code, IntelliJ, Anaconda, Brackets, GitHub, Matlab
- **Team Skills:** Higher order thinking, Problem solving strategies, Communication, Leadership, Creativity, Agile Project Methodology
- **Certificates:** Honor Roll, Ontario Scholar, Core French Fluency Certification
- **Trilingual:** Fluent in English, French, and Tamil

PROJECTS:

Graphic Design & Sorting Project

Mar 2022

- Demonstrated strong ability in Java object orientated programing, employing Java Class, inheritance, use of Java standard interface, interface implementation, complex business logic and AWT libraries to create a self-sorting conveyor belt with a functional graphical component
- Incorporated bubble sort algorithm, classes, and encapsulation principles to achieve a grade of 100%
- Collected and understood business requirements, wrote Java code from scratch, debugged using Eclipse IDE, and tested with business scenarios to pass the QA. Deployed complete and tested code for demo.

Game Design Project

Nov – Dec 2022

- Displayed advanced ability in Python object orientated programming by applying PyGame library to design a functional platformer game with a basic UI for all key event screens and main menu
- Illustrated complex utilization of classes, inheritance, polymorphism, abstraction, and data protection concepts to achieve a 100% grade evaluation

Object Detection Application (2nd Place in Toyota Innovation Hackathon)

Oct 2022

- Showcased successful implementation of OpenCV library and deep learning concepts, constructing an object detection program to fulfill the client requirements
- Demonstrated proficient training of model with expansive sample pool to recognize objects with precision

Personal Website Portfolio

Jan 2023

- Integrated HTML, CSS, and JavaScript designing a multiplatform personal web portfolio that displays key projects, libraries and algorithm implemented, and their utility
- Obtained knowledge in beneficial web design practices and graphic design principles by prioritizing functional and visual appeal throughout project completion

EXPERIENCE:

Event Coordinator, Town of Ajax, Ajax, Ontario

- Coordinated with both large and small teams to create and maintain events run by the Town of Ajax Organization to celebrate holidays or raise money for non-profit organizations
- Acquired critical thinking and communication skills by interacting with a variety of people to ensure the event ran smoothly

Kids Recreational Basketball Referee, Town of Ajax, Ajax, Ontario

- Organized and supervised several children from years 7-12 to play recreational basketball within a safe and constructive environment
- Obtained vital leadership and time management skills by ensuring fair competition to satisfy all parties

EDUCATION:

Bachelor of Applied Science (BASc) degree in Nanotechnology Engineering

2022- 2027

- Enrolled Intro to Programming (Python), Calculus, Linear Algebra and Physics
- Involved in Data Science Club, Computer Science Club, and Formula 1 Design Team