

## JUNIOR SOFTWARE DEVELOPER

DEVOPS ENGINEER | DATA ANALYST | PROBLEM SOLVER

Aspiring **Software Engineer** with hands-on experience in **Python, Java, JavaScript, C#, SQL**, and **MERN stack** development. Proficient in **Agile methodologies** and skilled in **database design, regression models, and software testing**. Strong foundational knowledge of **machine learning concepts, data structures, and algorithms**. Experienced in collaborating within **fast-paced, cross-functional teams** to deliver **high-quality software solutions**.

## PROFESSIONAL SUMMARY

- Foundational understanding of **machine learning concepts, algorithms and data structures**
- Proven ability to deliver high-quality results in fast-paced and collaborative environments
- Hands-on experience in programming DDC Controllers, database creation, regression models and software testing
- Knowledgeable in Agile methodologies, user-oriented design, testing, and the application of the SDLC
- Skilled in programming with **Python, Java, JavaScript, C#, SQL, and MERN stack development**
- Proficient with tools including **GitHub, Visual Studio Code, and Jira**
- Strong communication and teamwork skills, complemented by a creative and analytical mindset

## TECHNICAL SKILLS

<b>Programming:</b>	Python, Java, JavaScript, C#, SQL, HTML\CSS
<b>Frameworks &amp; Libraries:</b>	React, MongoDB, Express, Node.js, Angular, NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch
<b>Operating Systems:</b>	Unix, Linux, Windows
<b>Development Tools:</b>	Git, Visual Studio Code, Eclipse, IntelliJ
<b>Cloud Computing:</b>	Amazon Web Services, Microsoft Azure
<b>Other Tools:</b>	Jira, Trello, MS Office, Figma

## EDUCATION

**Software Engineering Technology - Artificial Intelligence (Co-op) Advanced Diploma** Jan. 2024 - Pres.  
Centennial College, Toronto, ON

- **Key Courses:** Introduction to A.I | QA & Testing | Java Programming | C# Programming | Software Systems Design | Web Interface Design | Database Concepts (SQL & PL\SQL) | Client-Side Web Development | Supervised Learning | Data Structures & Algorithms | Networking for Developers

## SELECT ACADEMIC PROJECTS

### **Machine Learning – Motorcyclist Accident Severity Prediction**

- Collaborated with a team to develop a full-stack web application using Python and React to predict accident severity based on user inputs
- Trained and evaluated classification models with scikit-learn, handling class imbalance using SMOTE and weighting techniques
- Designed a preprocessing pipeline with imputation, scaling, and one-hot encoding, and visualized data with Matplotlib, Seaborn, and GeoPandas
- Built a React UI to allow users to select models, input accident scenarios, and receive probability-based predictions via REST API

### **Web Design – GrabNConvert Media Toolkit**

- Built a responsive Flask-based media conversion tool using Python, HTML, CSS, and JavaScript, allowing users to download YouTube content or convert local files
- Integrated yt-dlp, MoviePy, and Pillow libraries to support MP4, MP3, WAV, PNG, JPG, and ICO formats
- Enabled dynamic folder handling, file listing to streamline media management
- Implemented user-friendly features including real-time form validation, error alerts, and a Bootstrap-styled UI

### **Database Systems – Astro Track**

- Designed and implemented a relational database in Oracle SQL Developer to manage celestial research data across 10 interconnected tables
- Created ER diagrams using Visio and translated schema into SQL with entity and bridge tables reflecting many-to-many relationships
- Developed a user-friendly frontend with interactive filters and insert options using PL/SQL packages and sequences for data entry into the Celestial Objects table
- Streamlined data management for astronomical research by enabling filtered views, real-time insertion, and relational queries through a structured UI

### **Full Stack Web Design - VibeVerse Social Media Platform**

- Developed a MERN stack social media platform similar to Instagram, featuring user authentication, post management, and profile customization
- Integrated Cloudinary for image management and MongoDB for database operations
- Collaborated on frontend and backend development with teammates

### **Software Requirements Specification Document - QueueMe**

- Collaborated in a team using Agile for the development of an SRS document for a mobile app & website, QueueMe, that allows patients to book and manage appointments
- Created UML diagrams and Gantt chart, as well as functional/non-functional requirements sections

## **PROFESSIONAL DEVELOPMENT**

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### **Amazon Junior Software Developer Professional Certificate | Coursera (Online)** In Progress

- Courses: Introduction to Software Development, Java Programming, Data Structures & Algorithms, Database Management, Full Stack Web Development, Generative AI

### **Hackathon Participant | WIMTACH & Scarborough Retirement Residences** October 2024

- Worked alongside a team to tackle challenges faced by dementia patients & caregivers
- Focused on Fall Prevention & Pain Detection to develop a user-friendly software application to improve the quality of life for elderly individuals

### **Hackathon Participant | WIMTACH & City of Toronto (Emergency Preparedness)** November 2024

- Developed innovative solutions to address community needs during disruptions like heatwaves, power outages, and extreme weather, earning recognition from the judges for impactful contributions

## **WORK EXPERIENCE**

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### **Software Developer Co-op | Culinabot Robotics Inc, Vancouver, BC** May 2025 – Aug 2025

- Collaborate with interns, the CFO, and CEO to develop a prototype cooking robot, contributing to its operating system, user interface, and technical documentation.
- Integrate robotic hardware with backend systems and support real-time automation workflows.
- Participate in Agile practices including stand-ups, sprint planning, and code reviews to ensure team alignment and code quality.
- Research and implement AI-driven features such as computer vision and real-time data processing.
- Work on SEO improvements to enhance the company's website visibility and online reach.

### **Junior BMS Control Programmer | Al Mayssan Technical Services, Saudi Arabia** July 2023 - Nov. 2023

- Perform function block programming and script programming of Direct Digital Controllers (DDC)
- Created database for Wonderware InTouch HMI Application
- Providing frontline support for on-site commissioning of application, including launch and user training
- Assisted in project management processes and document control

