Kunal Pandya

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PROFESSIONAL SUMMARY

Dedicated Software Engineering Student with experience in C# programming within the .NET framework and designing data cleaning algorithms as an Systems Design Engineer Co-op at Hitachi Truck Manufacturing. Adept in Back end and object-oriented programming. Eager to learn more about prompt engineering and portable LLMs.

SKILLS

- Object Oriented Programming.
- API based development.
- Python, TensorFlow (AI).
- Excellent Leadership Skills.
- HTML, CSS, Tailwind, JavaScript, Next.js, Typescript, PHP, MySQL.
- Java Development with Maven.
- Agile Development Principles.
- Linux Shell scripting.
- Embedded Systems Programming.
- Implementation of Design Patterns with SOLID principles.
- C/C++ Programming.
- C# Programming with .NET.
- Multi-threaded Programming.
- Visual Basic Applications (VBA)
- Development with Data Structures and Algorithms.

PROFESSIONAL EXPERIENCE

Hitachi Construction Truck Manufacturing Ltd.   May 2024 – Present
Systems Design Engineer Co-op

- Demonstrate analytical skills by designing and implementing data-filtering algorithms using Visual Basic Applications (VBA) to detect multivariant relationships among data from multiple sensors, saving over 100 hours annually.
- Leveraged critical thinking to design and implement algorithms in C# using .NET and OpenNX, optimizing manufacturing calculations in NX, resulting in an 8% reduction in R&D costs for the mechanical department.

Vale   June 2023 – Sept 2023
Information Technology Co-op

- Demonstrate problem-solving skills by automating data update processes and ensuring access to up-to-date critical metrics within the Project Controls Department, enhancing department efficiency by 12%.
- Showcase adaptability and technical expertise by designing and maintaining an internal SharePoint website, streamlining operations, and facilitating efficient information management for the Project Controls team.

Ultimate Codes   Sept 2020 – April 2024
Programming Tutor

- Demonstrate effective communication and collaboration skills by customizing the curriculum for each student.
- Display leadership and adaptability by teaching students of a vast age group in various programming languages.
- Exhibit dependability by taking over classes for other tutors in cases of emergencies and cancellations.

PROJECT

K-Means-Clustering - Data Structures Final Project 🔗

- Implement the basis of the K-means-clustering algorithm used in modern machine learning projects using object-oriented Java to demonstrate the importance of selecting the optimum data structure for a given problem.

Full Stack Web Development - DBMS Final Project 🔗

- Create a freelance website that uses HTML, CSS and JS to provide a responsive frontend supported extensively by PHP with MySQLI and RESTful API for a comprehensive backend that is both vertically and horizontally scalable.
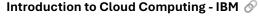
Real-Time Data Telemetry - Ontario Tech Racing 🔗

- Use PCAN-Basic, Cantools, Python-Can, Tkinter and Matplotlib libraries in Python to design a dynamic, dbc-based telemetry interface to display real time data passed over multiple pipelines of a Controlled Area Network (CAN) bus.

EDUCATION AND MICRO CERTIFICATION

Ontario Tech University   **May 2026**
Bachelor Of Software Engineering (CGPA: 3.79)
Introduction to Cloud Computing - IBM 🔗
Introduction to Web Development - IBM 🔗