Dylan Manamendra

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EDUCATION

Mcmaster University 2023 – 2027
Software Engineer Undergraduate Hamilton, Canada

- Successfully secured the Mcmaster Award of Excellence, a recognition for outstanding academic achievement.

SKILLS

- Python
- Java
- Django
- Linux
- Microsoft 365
- SQL
- HTML
- CSS
- JavaScript
- Customer Service
- Continuous Learning
- Teaching

PROFESSIONAL EXPERIENCE

Tutoring Nov 2022 – present
Mississauga, Canada

- Led high school math and astronomy clubs, igniting a passion for STEM through engaging lessons and interactive activities. Teacher observations documented a 10% improvement in student math grades.
- My strong communication skills, honed through leadership roles, allowed me to effectively provide freelance tutoring in math, science, and programming, boosting student confidence by an average of 15%.

PROJECTS

Automated automotive systems design Nov 2023
Mcmaster Engineering Competition

- Developed automated electric car systems using Python. Optimized battery usage for trips by developing a distance-based calculation system.
- Implemented an automated message and call handling system, enhancing driver experience through features like hands-free communication.

Rigor Jan 2024
Google Development Student Club Hackathon

- Built scalable fitness tracker backend (Django & Python) supporting 100 users & efficient data handling.
- Created high-accuracy food and nutrition classification system (97% food, 95% nutrition) for fitness app using Google Cloud Vision API.
- Developed secure & performant REST API (Django, Render) for seamless app connection, optimizing response times by 75%.

E-Commerce Shop page Dec 2023 – Jan 2024
Personal Project

- Developed a back-end for an E-Commerce shop page using Django, Python, and SQLite, enabling efficient product management and order processing.
- Employed code refactoring techniques to optimize website performance, resulting in a 20% increase in overall site responsiveness.

Multi-purpose desk modelling Jan 2024
CAD Designathon

- Utilized AutoCAD to construct a 3D model showcasing a multi-functional desk featuring a folding shelf and leg rest/seat.
- Rendered the table to professional standards for presentation purposes.
- Employed AutoCAD to conduct a stress analysis on the table, evaluating its response to external pressures.