Dev Mody

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Education

McMaster University Hamilton, ON
Bachelor of Applied Science in Honours Computer Science (Co-Op) *09/2022 – 04/2026*

- **Relevant Coursework:** Computer Architecture, Machine Learning, Data Structures & Algorithms, Databases & SQL, Probability and Statistics, Cryptography, Operating Systems, Compilers, Networks & Security and Data Mining
- **GPA:** 3.8

Technical Skills

Programming Languages: Python, C++, SQL, IBM COBOL, Java, JavaScript, Bash, C, Haskell, Perl, TypeScript
Frameworks: React.js, Next.js, Node.js, TensorFlow, PyTorch, Flask, Django, React Native, Express.js
Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, Airflow, JUnit Testing, IBM DB2, Git, Jira, ServiceNow, PowerBI
Cloud Services: AWS (Lambda, S3, CloudWatch, EC2), Firebase, Azure (Functions, Blob, Static Web App), Docker, Kubernetes

Experience

Software Developer Intern 05/2025 – Present
DCM *Mississauga, ON*

- Rejoined the team after receiving a return offer due to strong performance in the previous internship in 2024
- Continuing to develop COBOL and Bash scripts for production printers after reducing print job errors for major clients by 20%
- Maintaining UNIX scripts to support secure printing processes following a successful system migration
- Contributing C/Python code to internal tools in an Agile environment using the ServiceNow platform
- Expanding documentation on legacy codebases to support onboarding and long-term maintainability

Project Team Lead / Project Manager 09/2024 – 04/2025
McMaster Artificial Intelligence Society *Hamilton, ON*

- Lead the FormFit project of 8 members a Computer Vision and RL physiotherapy model
- Delegated tasks and mentoring team members within an Agile environment, improving team productivity by 60%
- Managed the Apache AirFlow ETL Pipeline to ensure smooth progress on model training and data preprocessing
- Organized weekly meetings, tracked progress with Jira and GitHub, and delivered weekly updates to executives
- Used React Native, WebSocket, Google MediaPipe, OpenCV, TensorFlow, and insights from multiple research papers

Projects

Biosense Pneumonia Detector
Python, TensorFlow, Pandas, Next.js, DigitalOcean, Flask *12/2023 - 01/2024*

- Designed a CNN model using TensorFlow to detect pneumonia from chest X-ray images, achieving 88% accuracy.
- Built a Flask backend deployed on a DigitalOcean Droplet to handle server-side operations and model inference.
- Created an interactive Next.js front-end for users to upload X-rays and view diagnostic results

Solar Flare SVM Classifier
Python, Scikit-Learn, Matplotlib, NumPy, Pandas *10/2024 - 10/2024*

- Implemented an SVM model based on a research paper to predict solar flares using NOAA datasets, achieving 85% accuracy
- Optimized experiments through feature selection, data normalization, and K-Fold Cross-Validation
- Analyzed results using True Skill Statistics (TSS) and visualized outcomes with confusion matrices and TSS graphs.

Intrusion Detection System Model
Python, Scikit-Learn, TensorFlow, Pandas, NumPy, Seaborn, Matplotlib *10/2024 - 12/2024*

- Built a CNN, Random Forest, and SVM models to detect 12 network attack types with 98% accuracy on the CICIDS 2017 dataset.
- Designed a 3-level hierarchical SVM classifier (binary, attack group, specific) using SMOTE sampling to handle imbalanced data.
- Optimized model architectures through cross-validation, achieving strong F1-scores across CNN, Random Forest, and SVM models