

# Resume

## Dylan Jayabahu

<https://www.linkedin.com/in/dylan-jayabahu-636037266/>

<https://www.dylanjayabahu.com/>




### EDUCATION & ACADEMIC QUALIFICATIONS

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- University of Waterloo – *Bachelor of Software Engineering*

### WORK EXPERIENCE

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-  **Embedded Systems and Software Development Intern** **July 2024-Aug 2024**  
[Perpion Ltd.](#)
  - Utilize STM32 microcontrollers and apply expertise in C programming to develop highly energy-efficient pulse-width-modulation-based motor control systems
  - Collaborate closely with Perpion Engineers to ensure the seamless integration and optimal performance in existing systems, advancing multiple pending patents
  - Developed a full-stack mobile application to allow users to sign in and view data graphs for battery and motor voltage/current readings, with over 1000 active users
-  **Lifeguard & Swim Instructor** **July 2024-Dec 2024**  
[YMCA of Three Rivers](#)
  - Teach swimmers of various skill levels: from infants to adults and first-time to advanced swimmers.
  - Instruct lessons of 30-45 minutes for groups of 1-12, teaching a total of over 100 swimmers each week.
  - Develop engaging lesson plans using extensive knowledge from competitive swimming to coach swimmers to the next level
  - Instructed and managed assistant volunteers.
  - Certified Swim Instructor and National Lifeguard with the National Lifesaving Society
-  **AI Development and Research Intern** **July 2023-Sep 2023**  
[Chirp Inc.](#)
  - Developed an AI system for fall detection using radar sensor data from physical devices.
  - Trained a deep learning model achieving 8x faster inference time and a 5% improvement in F-Score over the baseline model.
  - Enhanced model performance through iterative testing, modifying layers, channels, and activation functions to maximize efficiency.
-  **Marketing Intelligence Intern** **July 2023 – Aug 2023**  
[Nanorial Technologies Ltd.](#)
  - Completed the Snappea course for digital marketing
  - Managed company website, Facebook, Instagram, and LinkedIn pages, increasing social media engagement by 18%.
  - Developed meta pixels to track user activity, resulting in a 31% improvement in ad targeting effectiveness.
  - Created and optimized digital product advertisements on social media platforms, boosting click-through rates by 21%.

## ACADEMIC RESEARCH PUBLICATIONS

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- Presentation of [Deep Learning Model for Invasive Ductal Carcinoma Detection in Histopathology Images](#) at IEEE Canadian Conference on Electrical and Computer Engineering ([CCECE](#)); Upcoming sole-author publication in [IEEE Explore](#)
- Presentation of [Human Action Detection using Frequency Modulated Continuous mmWave Radar](#) at the 10th Annual Conference on Vision and Intelligent Systems ([CVIS](#)); First-author publication in the Journal of Computational Vision and Imaging Systems ([ICVIS](#)), University of Waterloo

## PROFESSIONAL CERTIFICATIONS

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- Professional Certificate: Artificial Intelligence Engineering, [IBM](#) (2025)
- Professional Certificate: Deep Learning with PyTorch, Keras and Tensorflow, [IBM](#) (2025)
- Data Structures and Algorithms, [GeorgiaTechX](#) (2025)
- Data Science: Machine Learning, [HarvardX](#) (2025)
- Collaborative Data Science for Healthcare, [MITx](#) (2025)
- Data Science: R Basics, [HarvardX](#) (2025)
- Professional Certificate Computer Science for Artificial Intelligence, [HarvardX](#) (2025)
- CS50's Introduction to Computer Science, [HarvardX](#) (2025)
- CS50's Introduction to AI with Python, [HarvardX](#) (2024)