# Yashwanth Raj Varadharajan

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## EDUCATION

**The George Washington University, School of Engineering & Applied Science**  **Washington, DC**
**Master of Science in Computer Science**  **August 2025**
- **Relevant Coursework:** Design and Analysis of Algorithms, Advanced Software Paradigms, Computer Architecture.

**Vellore Institute of Technology**  **Chennai, India**
**Bachelor of Technology, Electronics and Computer Engineering**  **May 2023**
- **Relevant Coursework:** Problem solving and Object-Oriented Programming, Database Management Systems, Principles of Software Engineering, Data Analytics and Visualization, Data Structures and Algorithms, Cloud and Distributed Computing, Numerical Ability and Cognitive Intelligence.
- Technical Lead and Event Organizer at ATOM Robotics.

## RELEVANT SKILLS

- Programming Languages: Python, JAVA, SQL, R.
- Tools: Power BI, Microsoft Excel, git, MATLAB, Firebase, MongoDB.
- Machine Learning: Python, Scikit-learn, Numpy, NLP, CNN, and Computer Vision.
- Design and Development: HTML, CSS, JavaScript, NodeJS, Android Studio, UI/UX Design.
- Soft Skills: Critical Thinking, Leadership, Creativity, Time Management, Networking, Adaptability, Communication.

## PROFESSIONAL EXPERIENCE

**Access Healthcare Services**  **Chennai, India**
**Associate Developer Intern**  **April 2023 - June 2023**
- Acquired practical insights in Software Engineering, Machine Learning and Robotic Process Automation while collaborating with team on Echo Applications, resulting in 50% reduction in RCM implementation time.
- Developed and automated Echobot, a comprehensive RCM process automation suite capable of creating on-the-go automation use cases and seamlessly integrating with various industry-leading automation frameworks.
- Played a pivotal role in the R Parser project, leading model development and training process to extract resumes and classify into 7 predefined roles aligning with candidate's profiles.

**Finlatics**  **Mumbai, India**
**Business Analyst Intern**  **October 2022 - December 2022**
- Leveraged dynamic analytics tools including Power BI and Microsoft Excel to extract actionable insights into consumer behavior and product preferences, empowering data-driven decision-making within organization.
- Concluded a project centered on analysis of consumer behavior data related to smartphone features, provided insights and actionable recommendations to potentially achieve a CSI score exceeding 9.

## TECHNICAL PROJECTS

**Team Lead, Cloud Based Military Surveillance Robot**  **January 2022 - April 2022**
- Led a team of five to engineer a versatile multisensory robot featuring a 2-layer architecture offering manual and autonomous capabilities, facilitating coherent sensor data transmission to Cloud API.
- Integrated ESP32 Cam and ESP8266 Wi-Fi modules for efficient data transmission and seamless 720-pixel resolution camera streaming. Employed Firebase IoT cloud module for data viewing and comprehensive analysis.
- Accomplished an impressive **87% efficiency and mere 5ms transmission delay** in an IoT cloud data transfer.

**Project Analyst, Crop Disease Detection using Machine Learning**  **September 2021 - December 2021**
- Collaborated with a team of three to implement a model to differentiate between healthy and disease-afflicted crops, while concurrently classifying specific disease among a set of 6 well-known crop diseases.
- Conducted a comprehensive comparative analysis among three prominent CNN architectures - ResNet50, InceptionV3, and ResNet152V2. Assessed performance through application of accuracy and model loss metrics.
- Achieved remarkable **model accuracy of 98.06% and model loss of 19.34%** for InceptionV3 Algorithm.