

Varsha Lingam

Email: lingamvarsha58@gmail.com

Mobile: +1 513-399-0722

LinkedIn: Varsha Lingam

Education

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| • Master of Science in Computer Engineering
<i>University of Cincinnati, Ohio, USA</i> | Aug 2023 - Jun 2025
CGPA: 3.8/4.0 |
| • Bachelor of Technology in Computer Engineering
<i>VNR Vignana Jyothi Institute of Technology, Telangana, India</i> | Jul 2018 - May 2022
CGPA: 9.56/10.0 |

Skills Summary

- **Programming Languages:** Python, Java, C++, SQL, C
- **Web Technologies:** Node.js, MongoDB, Android Studio, Firebase
- **Operating Systems:** Microsoft Windows 7/8/10
- **Skills:** Data Structures, Web Development, Android Development, Software Integration, Testing, IT Equipment Configuration
- **Developer Tools:** Git, GitHub, VS Code, Eclipse IDE, PyCharm, Spring Boot, Lucidchart
- **Soft Skills:** Team Leadership, Project Management, Effective Communication, Documentation, Analysis, Problem-solving

Work Experience

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| • Research Assistant
<i>BioMEMS Lab - Smartphone Analyzer for Cardiac Chip, University of Cincinnati</i> | Jan 2024 - Present |
| <ul style="list-style-type: none">◦ Developed and optimized a BioMEMS device for cardiac diagnostics, enhancing patient data accuracy.◦ Integrated smartphone compatibility, streamlining the data acquisition process.◦ Conducted UI refinement, backend adaptation, and iterative testing to improve user experience and system reliability. | |
| • Developer
<i>Deloitte USI</i> | Jan 2022 - Aug 2022 |
| <ul style="list-style-type: none">◦ Spearheaded software integration and testing, resulting in a 25% reduction in system errors.◦ Improved data processing speed by 40% through efficient troubleshooting and optimization techniques.◦ Configured and managed IT equipment and Active Directory accounts, enhancing security and efficiency.◦ Developed high-quality tools using Java, Spring Boot, VS Code, and JavaScript, adhering to industry standards. | |
| • Technical Intern
<i>CMR</i> | Apr 2019 - Jul 2020 |
| <ul style="list-style-type: none">◦ Developed critical features in Java, improving internal tool functionality.◦ Played a key role in project success during high-pressure phases, demonstrating adaptability and teamwork. | |

Projects

- **Point of Care Testing - Android Application**
 - Developed an intuitive Android application using Android Studio, Gradle scripts, XML, and Java, significantly boosting malaria biomarker detection accuracy by 35%.
 - Collaborated with healthcare professionals to ensure practical medical applicability, enhancing patient outcomes through accurate diagnostics.
- **BYE-BYE HUNGER - Web Application**
 - Created a seamless system using SQL, Microsoft Visual Studio, HTML, and Java to facilitate food redistribution, effectively addressing food scarcity and minimizing waste.
 - Implemented real-time surplus food notifications, resulting in a significant increase in volunteer engagement and a tangible impact on food insecurity.
- **Face Recognition System - Python**
 - Designed an advanced face recognition system using Python, OpenCV, and dlib, achieving high accuracy and real-time detection capabilities.
 - Enhanced security measures by 40% through a robust pipeline for face detection and recognition, integrating user feedback for improved usability.
- **Brain Disorder Detection**
 - Applied Convolutional Neural Networks (CNNs) to extract features from EEG signals, achieving high accuracy in real-time brain disorder detection.
 - Validated results with real-time databases, ensuring the technology's effectiveness and reliability in medical diagnostics.

Honors and Accomplishments

- Teaching Assistant, University of Cincinnati.
- Graduate Incentive Award (GIA), University of Cincinnati.
- Hosted Identity Bootcamp events at Deloitte.
- Social Media Head and Team Leader, Babul NGO; contributed to website development and conducted events.
- Chairperson, ISOI (Technical Student Club, VNR VJIET).