

# Varsha Setla

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## EDUCATION

**University of Cincinnati**, Cincinnati, OH

**Aug 2022 - Dec 2023**

*Master of Science in Information Technology*

**GPA: 3.88/4.00**

**Coursework:** Principles of Cybersecurity, Data driven Cybersecurity, Machine Learning and Data Mining for IT, Azure Data Engineer Advance Storage Technologies, Tech for Mobile apps, IT research methods, Human Computer Interaction

**Keshav Memorial Institute of Technology**, Hyderabad, India

**Aug 2017 - Aug 2021**

*Bachelor of Technology in Electronics and Communication Engineering*

**Coursework:** Control Systems, Embedded Systems, Database Management Systems, Network Analysis, Object Oriented Programming Microprocessors and micro controllers, PHP Programming

## TECHNICAL SKILLS

**Programming Languages:** Python, JAVA, C++, C#, Typescript, Machine Learning Algorithms, VB.NET, SDLC

**Cybersecurity Tools:** Network and Protocols, Penetration testing, Cybersecurity Software Tools, Intrusion Detection

**Web Development:** HTML5, CSS3, JavaScript, React.js, Angular, MySQL, Node.js, SQL server, Mongo DB, RESTful APIs

**Cloud Platforms:** Microsoft Azure, Azure Synapse Analytics, Apache Spark, Synapse Data Pipelines, Databricks, AWS, Snowflake

## PROFESSIONAL EXPERIENCE

**University of Cincinnati Foundation (Digital Philanthropy Center)**

**Jan 2023 – Present**

*Web Development and Data Analyst*

*Cincinnati, OH*

- Developed and maintained University of Cincinnati's website, ensuring a seamless online experience for alumni and supporters, resulting in a 20% increase in website engagement. Utilized HTML, CSS, JavaScript, and PHP for front-end and back-end development.
- Analyzed and handled alumni data with Python and SQL, enhancing database efficiency by 25% and enabling communication strategies.
- Implemented dynamic website features with React.js, enhancing user interaction by 15%.
- Participated in creating and executing digital fundraising campaigns, employing email automation tool.

**Pole To Win**

**Sept 2021 – Aug 2022**

*Associate Software Engineer*

*Hyderabad, India*

- Proficiently coded and optimized gaming software using C++ and Python, ensuring 15% increase in game performance.
- Designed and implemented RESTful APIs for seamless and efficient communication bridge between the front-end and back-end systems.
- Leveraged Docker and Kubernetes orchestration for enhanced system performance, enabling robust, reliable software solutions.
- Utilized React.js and MongoDB for database management and dynamic front-end experiences, enhancing application performance.

**Defence Research and Development Organization**

**May 2019 - Aug 2019**

*Software Engineer Intern*

*Hyderabad, India*

- Developed intricate algorithms in Java and C++ to enhance the functionality of defense systems, contributing to national defense efforts.
- Identified and resolved over 200 glitches during software testing, ensuring the deployment of 15 highly secure applications.
- Implemented stringent quality assurance practices, ensuring 99% reliability, and meeting organizational performance standards.

## RELATED EXPERIENCE

**Data-Driven Cybersecurity: Developing Robust Malicious and Benign Website Detection System**

**Jan 2023 - May 2023**

- Led team in building an automated system using Python, Pandas, Scikit-Learn, and XWolf12 dataset to ensure online safety.
- Implemented feature analysis for accurate classification. Conducted meticulous data preprocessing for robust security infrastructure.
- Applied advanced machine learning (Random Forest, K-Nearest Neighbors, Decision Tree) achieving 96% accuracy.

**Machine Learning Engineer and Data Scientist: Water Potability Prediction**

**Jan 2023 – May 2023**

- Developed predictive water potability model: Improved accuracy by 15% compared to baseline models.
- Implemented ML algorithms (RF, Decision Tree, SVM): Reduced false positives by 20%, enhancing reliability and safety.
- Achieved 95% data accuracy: Utilized Scikit-Learn and Pandas for precise preprocessing, ensuring reliable input for ML.

**HealthTech Mobile App Developer: Specialized in PCOS/PCOD Wellness**

**Aug 2022 - Dec 2022**

- Developed and launched user-friendly PCOS/PCOD mobile applications using React, JavaScript, Python, and UI/UX principles, featuring health management tools and innovative features. Achieved a 15% increase in user engagement and retention.
- Implemented streamlined health tracking system in mobile app, boosting user adherence by 20%.
- Steered a collaborative team, managing end-to-end project phases, and delivering a holistic women's health management solution.