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| Lahari Karrotu  Software Engineer   (321) 367‑9669     ·   laharikarrothu@gmail.com     ·   Melbourne, Florida 32901 |

Highly motivated individual with experience in developing and implementing software solutions. Proven expertise in developing, testing and debugging high performing software solutions with a keen eye for detail. Skilled in object-oriented programming, web development and database technologies. Excellent problem-solving and communication skills and demonstrates a passion for learning and implementing new technologies.

Skills

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| * System Integration | * Artificial Intelligence |
| * Data Visualization | * Cloud Computing |
| * Data Analysis | * Performance Optimization |
| * Agile Methodologies | * Quality Assurance |
| * Problem Solving | * Web Development |
| * Network Security | * Database Management |
| * Version Control | * Mobile Application Development |
| * Big Data Processing | * Machine Learning |
| * Software Engineering |  |

Experience

Programming Analyst

**cognizant technology Solutions, Hyderabad, India**

*January 2022 - July 2022*

* Resolved complex issues through debugging existing code, refactoring and developing new features.
* Analyzed customer requirements, identified potential problems and developed technical specifications.
* Provided technical leadership in the development of new systems and applications utilizing best practices.
* Developed web services using SOAP and REST architecture for integration between disparate systems.
* Implemented version control strategies such as Git or SVN to manage concurrent development tasks.
* Performed database administration tasks including query optimization, indexing and stored procedure creation.
* Developed innovative solutions for a wide range of programming challenges using JavaScript, HTML and CSS.

Java Developer

**Epam, Banglore, India**

*January 2021 - September 2021*

* Experienced in developing software components using core Java, OOPS concepts, JDBC and Servlets.
* Involved in debugging, troubleshooting and resolving production issues related to Java applications.
* Developed Java applications using Spring, Hibernate and JPA frameworks for enterprise level projects.
* Configured Apache Tomcat server for hosting web applications.
* Implemented message-oriented middleware solutions using Apache Kafka or RabbitMQ for asynchronous communication between applications.
* Designed and implemented microservices architecture for large-scale, distributed Java applications.

Education

Master of Science (M.S.) in Computer Science     GPA 3.6

Florida Institute of Technology, Melbourne, FL, US *May 2024*

* Extracurricular Activities
  + Volunteered in IT Serve Synergy Event held in Orlando

Certifications

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| * CCNA | * ServiceNow Developer |

Projects

Data Science Project: Automated Image Recognition for Medical Diagnostics  
  
**Handling Diverse and Sensitive Medical Data:**

Challenge: Acquiring, preprocessing, and managing a diverse dataset of medical images while ensuring compliance with regulations like HIPAA.  
Skills Involved: Proficiency in data preprocessing techniques, understanding of medical imaging modalities, and knowledge of data privacy regulations.  
Modeling Complex Medical Diagnostics with Deep Learning:  
Challenge: Develop accurate deep learning models, such as CNNs, to analyze complex medical images and classify them into diagnostic categories.  
Skills Involved: Expertise in deep learning frameworks (e.g., TensorFlow, PyTorch), model architecture design, and interpretation of model predictions.  
Ensuring Model Robustness and Interpretability:  
Challenge: Addressing class imbalance, limited labeled data, and ensuring model robustness and interpretability for clinical validation.  
Skills Involved: Techniques for handling imbalanced datasets, explainable AI methods, and collaboration with domain experts for validation.  
Full Stack Development Project: Blockchain-Based Supply Chain Management System  
  
**Implementing Decentralized Blockchain Network:**

Challenge: Designing and implementing a decentralized blockchain network, including consensus mechanisms, smart contract development, and node management.  
Skills Involved: Proficiency in blockchain platforms (e.g., Ethereum, Hyperledger Fabric), understanding of consensus algorithms, and smart contract development.  
Integrating IoT and RFID for Real-Time Data Capture:  
Challenge: Integrating IoT sensors and RFID tags into the supply chain for real-time data capture and secure recording on the blockchain.  
Skills Involved: Knowledge of IoT protocols, blockchain interoperability, and designing secure communication protocols.  
Addressing Scalability and Performance Challenges:  
Challenge: Mitigating scalability and performance challenges in blockchain networks, such as transaction throughput and latency.  
Skills Involved: Understanding blockchain scaling solutions, optimizing smart contract code, and performance testing of distributed systems.