

# YASWANTH KRISHNA VAYALAPALLI

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## EDUCATION:

**Syracuse University**, Master of Science in Computer Engineering

May 2024

**Gitam University**, Bachelor of Science in Electronics and Computer Science

May 2019

Relevant courses: Object-Oriented Programming with C++, Machine Learning, Artificial Intelligence, Data structures and algorithms

## WORK EXPERIENCE:

**Full stack Developer (Co-op)** | CASE, Syracuse University, New York

October 2023 - December 2023

- Refined system architecture and optimized data handling, employing React and Node.js to improve performance and user interaction, leading to a marked increase in system efficiency.
- Deployed code via AWS Lambda ensuring 99.9% uptime, developed a real-time alert system using WebSocket and Postman for instant score updates on mobile and desktop, and maintained cloud platforms for optimal performance and scalability.
- Designed and implemented user interfaces with ReactJS and TypeScript, improving front-end performance and user interaction for web services, contributing to more engaging customer experiences and efficient data handling.

**Data Engineer** | NextHiring LLC, Atlanta, Georgia

October 2022 - September 2023

- Collaborated to enhance the backend operations of a profile management system using Python and NoSQL databases, focusing on scalability, and resulted in a more efficient system that improved profile handling and updating by 30%, and established data pipelines for systems development and integration.
- Aiding in implementing an advanced search system using Elasticsearch for fast querying and Apache Kafka for real-time data streaming led to a 25% reduction in search latency and increased the accuracy of search results, enhancing user experience.
- Developed and managed data pipelines and ETL processes using Apache Airflow and Cassandra, optimizing data infrastructure for scalable new solutions, which improved system efficiency and user data interaction.

**Software Developer** | NPCI, Hyderabad, Telangana

January 2022 - July 2022

- Developed automation testing tools for two key products using Java and Selenium, reducing testing time by 40% and enhancing overall test efficiency, and supported scripting languages and schema design for database optimizations.
- Enhanced data retrieval processes by optimizing Relational database queries which integrated Java and Python achieving a 30% improvement in data retrieval speed for non-technical users.
- Engineered robust web services using Node.js and GraphQL, streamlining API design and enhancing data exchange to improve application functionality and customer-facing features, increasing system reliability and user satisfaction.

**Software Engineer-1** | NCR, Hyderabad, Telangana

July 2019 - January 2022

- Resolved over 50 critical production and sprint-release issues in Java and C++, enhancing product stability by 25%. Employed systematic debugging and code analysis to ensure robust software performance across releases.
- Developed 5 specialized tools, including a data generation tool, to aid the internal team using Python and Java.
- Enhanced log analysis using Apache Tomcat, and integrated Apache Spark for advanced monitoring of system health and log management significantly improved the efficiency of log records, supporting better issue tracking and resolution.
- Led the migration from Oracle to Postgres, refining and optimizing SQL queries to ensure data integrity and system functionality.
- Advanced Agile practices, focusing on rigorous unit testing, facilitated the design of scalable applications, improved development cycle times and code quality, and engaged in documentation and feedback loops to refine business processes and workflows.
- Utilized Git for version control, JIRA for issue tracking, and Jenkins for continuous integration, enhancing code quality through rigorous reviews.
- Developed numerous financial software features deploying .NET and C# in Visual Studio, increased customer satisfaction by 30%, focusing on scalable technology development in financial products.
- Created a machine learning tool using Python with Scikit-learn and TensorFlow to predict potential financial discrepancies, analyzing large datasets with Pandas.

## PROJECTS:

**Kelex**

January 2024 - March 2024

- Developed a Flask-based chatbot utilizing natural language processing to facilitate conversations, enhancing user engagement.
- Features multilingual support, significantly broadening accessibility and providing intelligent, context-aware responses.

**Flight departure Prediction**

January 2023 - May 2023

- Leveraged historical flight data to develop a predictive model using NLTK and PyTorch, improving forecast accuracy and operational planning for airline schedules.
- Project focused on solving complex problems through data-driven insights, enhancing the accuracy of predictions.

**Monopoly Game**

January 2023 - May 2023

- Created a Java-based Monopoly game with REST microservices and MySQL databases.
- Focused on managing game dynamics to ensure scalable and engaging player interactions, promoting multiplayer experience.

## SKILLS:

- Programming Languages: Python, Java, C++, JavaScript, C#, .NET
- Databases: MongoDB, Oracle, PostgreSQL, MySQL
- Frameworks & Libraries: React.js, Node.js, Express, Spring Boot, Flask, NLTK, Apache Kafka
- Data Science & Machine Learning: Pandas, NumPy, TensorFlow, PyTorch, Scikit-Learn