

JOEL MIRANDA

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<https://www.linkedin.com/in/joel-miranda-4159801a1/> | <https://joelmiranda26.github.io/Portfolio/>

Motivated software engineer with 3 years of experience, pursuing an MS in Information Technology and Management at Illinois Tech. Seeking for internship in data analysis, or engineering. Capable of data management and analysis, with a strong technical background and analytical mindset. Eager to use expertise and contribute effectively in a professional setting.

EDUCATION

Illinois Institute of Technology, Chicago, IL, USA.	Jan 2023 – Dec 2024
Master of Science in Information Technology and Management.	GPA: 3.77
Visvesvaraya Technical University, Belgaum, Karnataka, India.	Aug 2016 – July 2020
Bachelor of Engineering in Computer Science.	GPA: 3.33

SKILLS

Programming Languages: C, C++, C#, Java, JavaScript, Python (NumPy, Pandas, Matplotlib, Scikit-Learn), R, PHP, Rust.

Web Development: HTML5, CSS, Bootstrap, REST API.

Database: SQL, MySQL, Microsoft SQL, SQLyog, Oracle.

Tools: Tableau, Microsoft Excel, GitHub, Visual Studio, Apache NetBeans IDE 17, Postman, Spoon.

WORK EXPERIENCE

Global Esoft-Sys Private Limited, Mangalore, India as SOFTWARE ENGINEER	July 2020 - July 2022
<ul style="list-style-type: none">Embraced Agile methodologies in the Software Development Life Cycle, leveraging strong foundations in Python, C, and JavaScript for object-oriented programming. Demonstrated problem-solving and time management skills to deliver high-quality software solutions.Conducted thorough unit testing to ensure seamless software functionality, supported by backend technical expertise in Java for robust application development. Utilized continuous learning to stay updated with the latest testing frameworks and practices.Optimized in-application SQL statements to enhance system stability, reliability, and performance, demonstrating proficiency in database management and decision-making to improve system efficiency.Designed user-centric databases with essential stored procedures, elevating overall system efficiency. Collaborated with team members, showcasing strong teamwork and communication skills to deliver high-quality database solutions.Managed support tickets and conducted data analysis for reporting, trend forecasting, and identifying areas for improvement. Efficiently addressed payment-related issues, employing excellent problem-solving ability.	
EZ Technologies, Mangalore, India as Junior Analyst Intern	June 2019 - June 2020
<ul style="list-style-type: none">Enhanced Decision-Making through Data Insights by designing and implementing real-time user activities and identifying incomplete transactions.Executed meticulous analysis of various datasets, demonstrating adept handling of over 1000 observations and addressing missing values. Even addressed missing values with finesse, demonstrating proficiency in data cleaning and preprocessing methods.Emphasized seamless Oracle database operations through user interactions with the application, rather than using SQL Developer directly. Also actively participated in Agile processes, including sprint planning, daily stand-ups, and retrospectives.	

ACADEMIC PROJECTS

- 1) Train Management System:** <https://github.com/joelmiranda26/Train-Management-System.git>
 - Created intuitive, responsive portals tailored for various user roles using HTML, CSS, Java, and Apache Tomcat as the web server, allowing employees and IT administrators to have streamlined access to essential features.
 - Developed and maintained a robust Oracle-based relational database management system for train inventory and transportation data, ensuring data integrity through entity-relationship modeling, normalization, and enforcement of key constraints.
 - Demonstrated proficiency in using Oracle as the preferred relational database management system to ensure efficient data storage and retrieval. Emphasized seamless database operations through user interactions with the application, rather than using SQL Developer directly.
- 2) LinkedIn ETL Project:** <https://github.com/joelmiranda26/LinkedIn-ETL-Project>
 - Utilized Pentaho Data Integration (PDI), specifically the Spoon interface, to design and implement ETL processes, ensuring efficient data extraction, transformation, and loading across multiple data sources.
- 3) Stock Price Predictions:** <https://github.com/joelmiranda26/Stock-Price-Predictions.git>
 - Python libraries such as NLTK, Pandas, NumPy, Scikit-Learn, Matplotlib, and TensorFlow were used to preprocess, analyze, and apply machine learning to stock price predictions derived from social media.
 - Developed comprehensive evaluation plans that included dataset collection, NLTK preprocessing, and the use of classifiers such as Random Forest, Multinomial Naive Bayes, Logistic Regression, and Support Vector Classifier.
 - Model performance was evaluated using metrics such as accuracy, precision, recall, F1-Score, and ROC Curve, taking into account bullish, bearish, and neutral sentiments and current market trends.
 - Contributed to a more nuanced understanding of how tweet sentiment influences stock trends compared to market benchmarks.
- 4) Tableau Projects:** <https://public.tableau.com/app/profile/joel.miranda6506/vizzes>
 - Developed a comprehensive Tableau project analyzing [Airbnb USA data](#) and [Netflix data](#), providing insightful statistics on various attributes.

ACADEMIC WORK EXPERIENCE

Event Management - Illinois Institute of Technology, Chicago, USA	September 2023 - December 2024
<ul style="list-style-type: none">Managed logistics and operations for home varsity athletic events, including soccer, volleyball, swimming, basketball, lacrosse, and baseball, ensuring smooth planning, scheduling, and on-site execution.	