

# PREMI JEEVARATHINAM

NUS Graduate (MComp) | Former Software Engineer @ Temenos

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## SUMMARY

Motivated NUS Master of Computing student with hands-on experience in agile software development for the banking sector. Adept in data engineering and analytics with Python, R and SQL, and skilled in applying machine learning techniques. Proven expertise in automating builds with Jenkins and developing dashboards, gained through previous work and internships. **Eager to contribute to impactful projects in a full-time role starting October 2024.**

## EDUCATION

*National University of Singapore (NUS), Singapore.*

**MASTER OF COMPUTING (GENERAL TRACK)**

(JAN 2023-NOV 2024)

- **Course Modules** – Fundamentals of Data Analytics & AI, Data Mining, Big Data Systems for Data Science, Hands on with Applied Analytics, Software development & DSA (Python), Software Engineering on Application Architecture.

*Anna University- (PSG Institute of Technology and Applied Research), Tamil Nadu, India.*

**BACHELOR OF ENGINEERING (ELECTRONICS & COMMUNICATION)**

(AUG 2016-AUG 2020)

- **Course Modules** – Object Oriented Programming, Algorithms & Data Structures, Programming languages, Operating systems, Computer Networks.

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, C, CPP, jBASE, SQL, PowerShell Scripting
- **Web Development:** HTML, CSS, JS, Java, React
- **Data Analysis:** MS Excel, Power BI, Tableau, Airflow, MapReduce / Hadoop, Spark, Stream & Graph Processing,
- **Platforms:** Windows, Linux
- **Cloud-Based Tools:** GitHub, Bitbucket, AWS
- **Other Tools:** T24 Software, Eclipse, UiPath, Visual Studio Code, JIRA

## WORK EXPERIENCE

 *Temenos India Private Limited, Chennai, India.*

**POSITION – SOFTWARE ENGINEER**

(OCT 2020-OCT 2022)

- Developed automation solutions and analysed issues using T24BD, with strong knowledge in SQL, PowerShell scripting, and Continuous Integration and Continuous Delivery (CI/CD) with Jenkins.
- Teamed up to design and execute end-to-end automation for product onboarding within the DevOps cycle, enhancing time efficiency and resource optimization, led to earning a Team Award in 2021.
- Earned certification as a TCCP (Temenos Certified Consultant Program) employee.
- Experienced in creating and managing automation tools and writing test plans and test cases.
- Specialized in core T24 areas such as COB, Batch Processing, and Template Programming.
- Evaluated and resolved issues by debugging in regression cycles by applying data analysis techniques to improve process efficiency.
- Provided technical support by optimizing and maintaining internal testing tools of Temenos (SEAT infrastructure framework) with jBASE by adding new requirements and altering existing functionalities for latest updates.

## INTERNSHIPS

 *Education board, Science Centre Singapore.*

**POSITION – DATA ANALYST INTERN**

(MAY 2024-SEP 2024)

- Managed data pre-processing, Exploratory Data Analysis (EDA), data visualizations, and reporting for various datasets of the Science Centre Board's Education Platform and Young Scientist Badge platform with R and Python.
- Developed interactive dashboards using the Shiny library in R and enhanced programs/scripts for reporting data on usage of the Young Scientist Badge platform.

- Streamlined tasks to ensure seamless automation & monitoring of user activities using Robotic Process Automation (RPA) with UiPath.

#### **Little Prince Game Studio, Singapore.**

##### **POSITION – PROGRAMMER INTERN**

(MAY 2023-JUN 2023)

- Led build process of game in the iOS application with Jenkins.
- Facilitated uploading of logs and reports of build process to Amazon Web Services (AWS) after every build.
- Implemented Continuous Integration and Continuous Delivery (CI/CD) processes using Bitbucket and Jenkins.

#### **Temenos India Private Limited, Chennai, India.**

##### **POSITION – SOFTWARE ENGINEERING INTERN**

(JAN 2020-AUG 2020)

- Mastered T24 banking concepts and T24 software.
- Engineered robust solutions using jBASE programming and Template programming for optimized performance.
- Handled updates and maintenance of internal testing tool of Temenos (SEAT infrastructure framework).

## **PROJECTS**

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#### **Course Module – Hands on with Applied Analytics.**

##### **PROJECT – PREDICTING PLANT DISEASES – IMAGE CLASSIFICATION**

(JAN 2024-APR 2024)

*(We incorporated a Kaggle dataset Image dataset containing different healthy and unhealthy crop)*

- Implemented KNN, CNN, and SVM models, with CNN demonstrating superior performance in disease classification.
- Leveraged data augmentation techniques with CNN and SVM to boost model robustness and accuracy.

#### **Course Module – Knowledge Discovery & Data Mining.**

##### **PROJECT – PREDICTING HDB RENTAL RATES: FINDING THE RIGHT FLAT**

(AUG 2023-NOV 2023)

*(We applied a Kaggle dataset to forecast HDB flat rental rates in Singapore, offering insights for renters, landlords, and government stakeholders navigating dynamic housing market)*

- Employed XGBoost Regressor, achieving superior predictive capabilities for HDB rental rates.
- Applied Hyperopt for effective hyperparameter tuning, increasing model accuracy.
- Identified key features and leveraged external data, such as the Housing Consumer Price Index (CPI), to capture variations and provide valuable insights for stakeholders in navigating rising HDB rental prices.

#### **Course Module – Fundamentals of Data Analytics.**

##### **PROJECT – RECOMMENDATION ENGINE TO GENERATE TOP UNIVERSITIES FOR A STUDENT BASED ON UNIQUE PROFILE**

(JAN 2023-APR 2023)

*(We utilized data from College Scorecard dataset containing a wide range of info on colleges and universities in US)*

- Trained a regression model with university-specific data to anticipate earnings.
- Trained a second model with student-specific data to find most similar colleges based on a student's profile.
- Combined these two models to anticipate earnings based on a student's profile and preferences.

## **JOURNAL PUBLICATION**

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##### **HEALTH MONITORING OF SOLDIERS USING EFFICIENT MANET PROTOCOL.**

(DEC 2020)

*Institute of Electrical and Electronics Engineers (IEEE), RAICS 2020, DOI- [10.1109/RAICS51191.2020.9332510](https://doi.org/10.1109/RAICS51191.2020.9332510)*

To design a health monitoring system that transmits the data such as health parameters of soldiers like temperature, pulse rate, blood oxygen level, and Electrocardiogram (ECG) over a Mobile Ad hoc Network (MANET) with an efficient routing protocol through nRF24L01 to the control room. The efficient protocol is identified by comparing the different MANET protocols simulated using OMNET++.

## **TECHNICAL CERTIFICATIONS**

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- IBM DATA SCIENCE PROFESSIONAL CERTIFICATE** – *Coursera.* (JUN 2024)
- GOOGLE CLOUD PLATFORM FUNDAMENTALS** – *Pluralsight.* (MAR 2022)
- JAVA: JSON FUNDAMENTALS** – *Pluralsight.* (MAY 2021)