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 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

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

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

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

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