

Dhanasree Rajamani

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EDUCATION

San Jose State University

Master of Science in Software Engineering with Data Science specialization | GPA: 3.9/4

San Jose, CA

Aug 2022 - May 2024

PSG College of Technology

Master of Science (M.Sc.) in Software Engineering | GPA: 7.3/10

Coimbatore, India

2012 - 2017

SKILLS

- **Languages:** Python, C++, Java, C, C#, JavaScript, Shell Script, R, MATLAB, HTML, CSS, SQL
- **Frameworks and Tools:** Pandas, Jadbio, Featurewiz, Pycaret, Power BI, Azure Databricks, Azure Data Factory, MS Power Apps, SSIS, SSAS, SSRS, ASPNET, QlikView, Tableau, Spark, Ansible, Google Cloud Endpoints, AWS, Git
- **Databases:** MS SQL Server, MySQL, MongoDB
- **Mobile:** Android Studio

EXPERIENCE

KLA Corporation

Systems Software Engineer Intern

Milpitas, CA

May 2023 - Aug 2023

- Designed a system to consolidate and process logs of **25 different KLA tools** from various servers to analyze tool performance.
- Built a framework to perform automated data parsing, cleansing, and transformation to generate a combined file of contributing entries to drive correlation and insights and realised at least **50% time savings**. [Python, Pandas, SQLite, Pytest]
- Implemented automated procedures for **analyzing and predicting** tool failures using specific tool parameters extracted from the consolidated dataset.

Thorogood Associates

Business Intelligence and Analytics Engineer

Bangalore, India

July 2017 - October 2020

- **Tech lead** of a project that manages EPOS data, devises calculations, builds reports, and **generates actionable insights to improve the market share** of a leading European tobacco manufacturer. [SQL, SSIS, SSAS, SSRS, Tableau, ASPNET]
- Designed a Pharma supply chain inventory management system that provides "**Data as a service**" on Azure platform by **processing 100GB+ unstructured** raw material data and enabling customers to build self-service dashboards easily, **reducing their operations cost by 70%**. [Python, SQL, Azure Databricks, Azure Data Factory, Power BI, Power Apps]
- Built a **dashboard with intuitive charts** and enhanced security by providing **fine-grained authorization controls** to individuals for a Forecast Reliability project. [QlikView]
- Developed an **ML/NLP solution** that automates data attribution of new product information from raw sales data to a structured DB for analytics. This replaced the traditional manual work **saving 6 hours of engineering time per week** [SQL, .NET].
- **Manager** for 2 new grads and **trained 20+ new hires** on Microsoft SQL Server Integration Services (SSIS).

IBM India System Development Labs

Software Engineer Intern

Bangalore, India

January 2017 - June 2017

- Developed a Cognitive tool that **improves developer productivity** by **analyzing the failure logs** produced on executing a test and provides the nearest possible solutions for known defects, and configuration issues. [Python, C++, Shell Script]

Divum Corporate Services Pvt. Ltd

Software Engineer Intern

Bangalore, India

May 2015 - November 2015

- **Built 2 Android apps from scratch** to handle Logistics and Sales for a grocery delivery service. [Java, Google Cloud Endpoints]

PROJECTS

- **SmartHire** [Python, MySQL, Amazon S3, HTML, CSS, Javascript, Okta]: Built an enterprise-level solution to power the end-to-end recruitment pipeline. Automates various stages such as resume screening, shortlisting of candidates, and interview scheduling with role-based access to enable data security and privacy.
- **Crop Recommendation System** [Python, AutoViML, Pycaret, Featurewiz]: Developed a web app to recommend the most suitable crop based on various environmental factors using the decision tree model.
- **Shop Assist** [Python, YOLO]: Built an application that helps users identify and locate products in grocery store aisle. The **YOLOv7** model is fine-tuned with a custom grocery dataset, labeled using **Roboflow** to perform object detection on test images and videos. Additionally, a Flask application has been developed to facilitate uploading images and videos for **real-time object detection**.
- **Hex Editor** [C++]: Designed and developed a text editor using Counted tree, a modified version of B+ trees, to efficiently store and retrieve text. This application served as a highly efficient tool for capturing and organizing notes.

ACHIEVEMENTS

- **Star Award** at Thorogood for improving the market share of a leading client by building a system from ground-up.
- **Passion Award** at Thorogood for landing a Forecast Reliability project **50% before the expected time**.

RELEVANT COURSEWORK

Enterprise Software Platforms, Data Mining, Machine Learning, Deep Learning, Object Oriented Design, Data Structures & Algorithms, Operating Systems