

Dhanasree Rajamani

dhanasree.rajamani@sjsu.edu | 323-423-6501 | LinkedIn: [dhanasree-rajamani](#) | Fremont, CA |
GitHub: [Dhanasree-Rajamani](#) | Portfolio: [dhanasree-rajamani.github.io](#) | Medium: [@dhanasree.rajamani](#)

EXPERIENCE

KLA Corporation

Systems Software Engineer Intern

Milpitas, CA

May 2023 - August 2023

- Doubled KLA tool analysis speed, **reclaiming 45 hours/week** by streamlining log processing for 25 different KLA tools. Built scripts and tools to extract data from log files, standardize its format, and efficiently load it into the analysis environment [ETL]
- **Saved over 70% of engineering time** spent on tools' insights generation, reducing it from 32 to 10 hours, by building a framework to generate unified datasets through automating data parsing, cleansing, and transformation
- Enhanced KLA tool **reliability by 10%**, thereby minimizing unexpected downtime for customers through automated analysis and **prediction of tool failures** using specific parameters from the consolidated dataset [Python, Pandas, SQLite]
- Realized a **28%** reduction in post-release bug reports through the authorship of extensive unit tests, integration tests, and end-to-end tests, ultimately achieving 95% code coverage [Pytest]

Thorogood Associates

Business Intelligence and Analytics Engineer

Bangalore, India

July 2017 - October 2020

- Enabled a top European firm to strategically **improve market share** as a **Tech Lead** by refining ambiguous client requirements. Performed EDA, data visualization, statistical analysis, hypothesis testing, collaborating with cross-functional teams to harness sales data and deliver actionable decision-making insights [C#, ASP.NET, SQL, Tableau, SSIS, SSRS, QlikView]
- **Reduced operations cost by 70%** for customers by designing a Pharma supply chain inventory management system on the Azure platform, capable of processing over 100GB of unstructured raw material data. The system not only offered 'Data as a service' but also empowered effortless self-service dashboard creation. [Python, SQL, Azure Data Factory, Databricks, Power BI]
- Minimized **6 hours of engineering time per week** by eliminating traditional manual processes through the development of an ML/NLP solution that automated data attribution from raw sales data to a structured database for analytics. [ASP.NET, SQL]
- **Managed 2** new grads and **trained 20+ new hires** on Microsoft SQL Server Integration Services (SSIS)

IBM

Software Engineer Intern

Bangalore, India

January 2017 - June 2017

- **Boosted developer productivity** by crafting a Cognitive tool that analyzes test failure logs, offering actionable solutions
- Utilized by over 200 engineers and provides invaluable troubleshooting assistance [Python, C++, Shell Script, Watson, Linux]

Divum

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]

SKILLS

- **Languages:** Python, C++, Java, C, C#, JavaScript, Shell Script, Scala, R, MATLAB, HTML, CSS, SQL
- **Frameworks and Tools:** Azure (Data Lake, Databricks, Data Factory), Power BI, Pandas, Pycaret, Node.js, ASP.NET, Hive, Spark, sklearn, React.js, jQuery, Airflow, Ansible, Docker, PyTorch, TensorFlow, Git, AWS
- **Databases:** MS SQL Server, MySQL, MongoDB, Amazon S3
- **Mobile:** Android Studio

PROJECTS

- **SmartHire:** Developed **microservices** to optimize the end-to-end recruitment pipeline, tailored to **aid recruiters and sourcers**. Automated key stages, including resume screening, candidate shortlisting, and interview scheduling, all while maintaining role-based access controls to uphold data security and privacy. [Python, MySQL, Amazon S3, HTML, CSS, Javascript, Okta]
- **MLInvest:** App that leverages **machine learning** techniques (clustering, classification, and regression) to enable investors to make data-driven decisions and maximize ROI in Real Estate. [Python, Pandas, NumPy, Sklearn, pyclustering, Matplotlib]
- **Shop Assist:** Streamlined the shopping experience by creating an app that leverages **deep learning** for product identification in grocery store aisles. Fine-tuned the YOLOv7 model with a custom grocery dataset, labeled using Roboflow, and developed a Flask application to aid real-time object detection by allowing users to upload images and videos. [YOLO, Roboflow, Flask]
- **Hex Editor:** 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. [C++]

EDUCATION

San Jose State University

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

San Jose, CA

August 2022 - May 2024

PSG College of Technology

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

Coimbatore, India

July 2012 - April 2017

ACHIEVEMENTS

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