Dhanasree Rajamani

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EDUCATION

San Jose State University San Jose, CA
Master of Science in Software Engineering with Data Science specialization | GPA: 3.9/4 *August 2022 - May 2024*
PSG College of Technology Coimbatore, India
Master of Science (M.Sc.) in Software Engineering | GPA: 7.3/10 *July 2012 - April 2017*

SKILLS

- **Languages**: Python, C++, Java, C, C#, JavaScript, Shell Script, Scala, R, MATLAB, HTML, CSS, SQL   **Mobile**: Android Studio
- **Frameworks and Tools**: Pandas, Power BI, Microsoft Azure, Databricks, Scikit-learn, PyTorch, TensorFlow, Pycaret, MS Power Apps, SSIS, SSAS, ASP.NET, QlikView, Tableau, Spark, Ansible, Google Cloud Endpoints, AWS, Git   **Databases**: MS SQL Server, MySQL, MongoDB

EXPERIENCE

KLA Corporation Milpitas, CA
Systems Software Engineer Intern *May 2023 - August 2023*
- Doubled KLA tool analysis speed, **saving 45 hours/week** by streamlining log processing for 25 different KLA tools.
- **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.
- Improved 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, Pytest**]

Thorogood Associates Bangalore, India
Business Intelligence and Analytics Engineer *July 2017 - October 2020*
- Enabled a top European firm to strategically **improve market share** by leading a project that harnessed EPOS data, executed calculations, and delivered actionable insights for decision-making. [**ASP.NET, SQL, SSIS, SSAS, SSRS, Tableau, QlikView**]
- **Reduced operations cost by 70%** for customers by designing a Pharma supply chain inventory management system on the Azure platform. This system processed over 100GB of unstructured raw material data, providing 'Data as a service' and enabling effortless self-service dashboard creation. [**Python, SQL, Azure Databricks, Azure Data Factory, Power BI, Power Apps**]
- Saved **6 hours/week of engineering time** 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. [**C#, ASP.NET, SQL**].
- **Manager** for 2 new grads and **trained 20+ new hires** on Microsoft SQL Server Integration Services (SSIS).

IBM Bangalore, India
Software Engineer Intern *January 2017 - June 2017*
- **Boosted developer productivity** with a Cognitive tool that analyzes test failure logs, offering solutions for known defects and bugs. This tool, utilized by 200 engineers, provides invaluable troubleshooting assistance. [**Python, C++, Shell Script, Watson**]

Divum Bangalore, India
Software Engineer Intern *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:** Developed a system 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**]
- **Crop Recommender:** Improved crop selection for optimal yield by developing a web application that employs a decision tree model to analyze various environmental factors. [**Python, AutoViML, Pycaret, Featurewiz, HTML, CSS, Javascript**]
- **Shop Assist:** Streamlined the shopping experience by creating an application that facilitates product identification and location 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++**]

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, Algorithms, OS