Dhanasree Rajamani

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EXPERIENCE

KLA Corporation   Milpitas, CA
Systems Software Engineer Intern   *May 2023 - August 2023*

- Doubled KLA tool analysis speed, **reclaiming 45 hours/week** by streamlining log processing for 25 different KLA tools. The initiative stemmed from **identifying a critical efficiency bottleneck** and entailed the development of 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, Pytest**]

Thorogood Associates   Bangalore, India
Business Intelligence and Analytics Engineer   *July 2017 - October 2020*

- Enabled a top European firm to strategically **improve market share** as a **Tech Lead** by refining vague customer requirements, collaborating with **cross-functional teams** and defining a comprehensive **project roadmap** to harness sales data and deliver actionable decision-making insights [**ASP.NET, SQL, SSIS, SSRS, Tableau**]
- **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, Power BI, QlikView**]
- 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   Bangalore, India
Software Engineer Intern   *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**]

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**]

SKILLS

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

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. [**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**]
- **Text-To-Image Generator:** Developed a robust data augmentation pipeline and leveraged the versatile capabilities of **KerasCV** and **TensorFlow**. This involved the creation, **training**, and evaluation of a deep learning model that redefined the process of generating striking visual content directly from textual descriptions to enhance the content creation experience

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*

ACHIEVEMENTS

- **Star Award** at Thorogood in recognition of successfully mitigating and conducting **root cause analysis** for a critical production issue, resulting in the timely resolution and unblocking of over 8 cross-functional teams.