

# SARASA PATTABIRAMAN

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## Education

### New York University

Master of Science in Computer Science

Aug. 2024 – May 2026

New York

### Visvesvaraya Technological University

Bachelor of Engineering in Computer Science

Aug. 2017 – Aug. 2021

Bengaluru, India

## Relevant Coursework

- Algorithms
- Cloud Computing
- Software Engineering
- Database Management
- Machine Learning
- Big Data
- Artificial Intelligence
- Operating System

## Technical Skills

**Languages:** Python, Java, C, HTML/CSS, JavaScript, SQL

**Tools:** Starburst, Trino, dbt, Control-M, RedHat, Kubernetes, Apache Spark, Apache Airflow, AWS, Bamboo, Docker, Flask, Django, Tableau, Seaborn, REST, React, Node.js, Selenium, Unix

**DataBases:** MySQL, Teradata, MongoDB

**Version Control:** Git, Bitbucket, GitHub

## Experience

### ANZ (Australia and New Zealand) Bank

Data Engineer

April 2021- June 2024

Bengaluru, India

- Led a team overseeing the migration of data assets into new tech stack (dbt, Trino, and Airflow); resulting in **10% reduction in Teradata storage** and improved cost efficiency.
- Developed row hashing mechanism for "Your Money" report, which provides a detailed 12-month spending analysis for customers, significantly improving processing efficiency and reducing runtime from **~3 hours to 1.5 hour**.
- Identified workflow bottlenecks in the data ecosystem using networking algorithms such as Dijkstra's and Bellman Ford; achieved **~22% increase in meeting SLAs** through optimization.
- Developed and implemented an in-house data lineage tool that enhanced data practitioners' ability to streamline data discovery process and helped SREs to expedite pipeline incident investigations
- Improved home loan data infrastructure by simplifying complex transformation processes and making different domains of the asset independent; enabling the asset to be enriched with domain data as and when available.
- Enriched the home loan data asset with **8 years' worth of data in 4 weeks** by developing history load scripts; significantly reducing time taken from the usual 6-8 months.

### Epicor Software Corporation

Software Engineer Intern

Jan 2021 – March 2021

Bengaluru, India

- Contributed to the development of Senior Living Solution, Australia's leading aged-care software, by analysing business requirements, understanding the C#/.NET codebase, and actively participating in coding and debugging efforts.
- Developed and executed automated test scripts using Selenium for quality assurance; reducing manual testing time.

## Projects

### Malware Detection

January 2021

- Disassembled executable files into assembly files, extracted opcode sequences, and tokenised them. Created feature vectors using Word Embedding. Implemented a stacked 3-layer LSTM to process sequences of data effectively with 95% accuracy in detecting malicious files.
- Utilized Heroku for scalable deployment, Flask for building the web application, and Bootstrap(HTML, CSS, Javascript) for responsive front-end design to deploy the machine learning model effectively.

## Achievements

- **ANZ Individual Achievement** : Awarded for outstanding contributions to the data lineage project, with a monetary award of ₹5,000 in recognition of innovation.
- **ANZ Team Achievement** : Awarded for optimizing the home loan data infrastructure and developing scripts that enriched 8 years' worth of data. Received a monetary award for efficiency improvements.