

Aishwarya Nagaraj

Dallas, Texas, US

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EDUCATION

Master of Science, Computer Science

The University of Texas at Dallas, United States

May 2024

3.6 /4.0 GPA

Bachelor of Engineering, Computer Science and Engineering

Visvesvaraya Technological University, India

July 2022

9.58/10.0 GPA

EXPERIENCE

Software Engineer, 7-Eleven (Node JS, AWS, MongoDB, New Relics)

June 2023 - Present

- Optimized database design by restructuring tables, resulting in 12% improvement in cart response time
- Performed A/B testing to optimize 'Buy Again' feature placement, leading to 20% repeat purchases
- Integrate split payment feature across 7Wallet & other payment modes, boosting transaction volume by 5%
- Incorporated EBT purchase functionality into the platform, expanding the customer base by 8%

Software Engineer Intern, McKinsey & Company (JavaScript, React Native, Postman)

February 2022 - July 2022

- Developed mobile application for lifestyle firm; enhanced user experience by 15%
- Designed Mobile Screens & React Native components, increased test coverage using unit testing by 20%
- Streamlined customer acquisition, enhancing revenue by 15%, adding 30000+ new homeowners to application

Student Developer Intern, Amphisoft Technologies (C++, Algorithms)

July 2019 - August 2019

- Led a team of 5 in developing a GUI based internship-tracking system using C++
- Evaluated advantages of deploying different data structures (list, stack, queue, heap) for Time & Space complexities

TECHNICAL SKILLS

Language : Python, C, C++, C#, Java, Spring Boot, JavaScript, Go, Rust, HTML, CSS, TypeScript

Worked On : Object Oriented Programming, Relational Databases (MySQL, PostgreSQL), Sequelize CLI, NoSQL, jQuery Express, Next JS, REST API, React, Angular, Unit Testing, Test-Driven Development, Agile Methods, Docker, Kubernetes, Pandas, NumPy, Scikit-Learn, Matplotlib, Hive, Seaborn, Kibana, Spark, Kafka, Databricks

ACADEMIC PROJECTS

IPL database management (Java, Spring boot, Tableau, React)

- Implemented advanced analytics for comparing players' performances against teams and players, enhancing user experience with interactive insights, covering 2008-2019 seasons.
- Delivered a dynamic, data-driven interface for IPL, enhancing user experience and engagement by 35%, while providing critical insights that improved decision-making and strategic planning by 20%

Movie Piracy Prediction (Python, ML Algorithms)

- Implemented Random Forest, Gradient Boosting, KNN and SVM to improve prediction accuracy by 40%.
- Utilized clustering algorithms to identify patterns within data, leading to 30% reduction in false positive rate

Search Engine for Science (Python, Apache)

- Optimize crawling and indexing processes for 100,000 web pages, resulting increase in search engine accuracy
- Developed 2 relevance model, vector space model & model based on PageRank and HITS, & their combination
- Implemented Rocchio algorithm for query expansion & assessing performance in comparison against Google, Bing

Movie Piracy Prediction System (Python Pandas, PyTorch, NumPy, Scikit-learn)

- Increased prediction accuracy by 5% through custom machine learning models like XGBoost, SVM, Decision Trees
- Improved data quality by reducing noise and inconsistencies by 30% through comprehensive data cleaning & analysis