Sairam Harikrishnan

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EDUCATION

The University of Texas at Dallas, MS Information Technology and Management December 2024
Anna University, B. Tech., Information Technology May 2019

PROFESSIONAL EXPERIENCE

FedEx | Remote June 2024 – Present
Intern – Information Technology
- Coded a new **SpringBoot** application for field operations reporting which will be used in more than **100** countries
- Created an **ephemeral environment** in Pivotal Cloud Foundry (**PCF**) using **Jenkins** saving **90%** of the runtime cost
- Automated test execution using **Selenium** and **Cucumber** framework as part of **ephemeral environment** pipeline

Copart | Dallas, Texas January 2024 – May 2024
Software Engineering Intern
- Designed an image compression module in **Angular,** reducing the size to **500kB** for a damage score AI model
- Built an internal tool using **Angular**, **Spring Boot** and **MariaDB** to customize seller portal **under a minute**
- Migrated **Apache Solr** collection containing data of more than **2 million cars** sold on auction for faster indexing
- Implemented lazy loading of Billing Invoice PDF on-demand reducing the API calls by more than **50%**
- Developed a new module using **Spring Boot** and **Angular** to simplify vehicle title actions such as requesting duplicate title, uploading bill of sale, etc. in a short span of **2 weeks**

ThoughtWorks | Chennai, India June 2022 – December 2022
Consultant – Developer
Client: Generali Italia
- Reduced page redirects to **1** from claims dashboard page by implementing quick action widgets in **Angular**
- Decreased build failure rate by **30%**, and improved the code quality by building an engineering metrics dashboard with **SpringBoot**, **React JS**, **PostgreSQL**
- Lowered repetitive API calls by over **50%** by implementing a real-time claims dashboard using **SpringBoot** and **Websockets** for live customers insurance claim submissions

Cognizant, Chennai, India July 2019 – June 2022
Software Engineer
Client: Walgreens
- Implemented one-click order placement using **SpringBoot** and **MongoDB** reducing the overall API utilization by **75%**
- Increased the microservices capacity to accept orders by **30%** by implementing message-based asynchronous communication using **Azure functions** and **storage queues**
- Minimized webpage navigations by more than **50%** by developing a search feature for orders with **Java** and **Redis**
- Curtailed latency of Walgreens e-commerce platform APIs to less than **1s** on average by optimizing the code in **Java**
- Engineered the business logic in **Java** for same-day delivery last mile which **increased the revenue by $8 per order**

ACADEMIC PROJECT EXPERIENCE

PlayFy | *SpringBoot, React, Redis* June 2024 – Present
- Implemented **OAuth 2.0** to connect with Spotify APIs fetching playlist information
- Developed features such as linking a spotify account to the application
- Currently engineering logic to **sync user's playlists from spotify**, **export** the playlists tracks as CSV / PDF and **migrate** to other platforms. GitHub Link

Credit Card Approval Prediction | *R Programming* February 2023 – April 2023
- Used **AdaBoost** boosting technique to get the maximum accuracy of **91%** and false negative rate about **8%**
- Employed **SMOTE** oversampling algorithm to balance the minority class of risk users (**0.3 percent**) GitHub Link

InstaHMS | *MySQL*   February 2023 – April 2023
- This project addresses the daily operations of a hospital via effective queries in **MySQL**
- Implemented SQL scripts to define schema, optimized queries, views, stored procedures and triggers. GitHub Link

InteracT | *Android Studio, Java*   June 2018 – July 2018
- Built an Android app to display upcoming events of undergrad college along with a **chat** feature
- Integrated the app with **Firebase Firestore** to manage data, **Firebase Auth** to manage security. GitHub Link

TECHNICAL SKILLS
Programming/Markup Languages: Java, HTML, CSS, JavaScript, TypeScript, Python, SQL, R
Technologies: Spring Boot, JPA / Hibernate, JUnit, Angular, React, Redux, Microservices, Rest APIs, Gradle, Maven, Docker, Microsoft Azure, Azure App Services, Azure API Management, Azure KeyVault, Amazon Web Services (AWS), AWS CodePipeline, AWS EC2, AWS Lambda, AWS IAM, Redis, MySQL, Oracle SQL, MongoDB, Apache Solr
Tools: Jenkins, JIRA, Azure DevOps, Git, GitHub, AppDynamics, Splunk, Excel
Agile Practices: Scrum, Extreme Programming (XP), Test Driven Development (TDD), Scaled Agile Framework (SAFe)

STUDENT CLUBS
Web Design Lead, Code.exe at UTD   September 2023 - Present
Presentation Mastery (L1), Toastmasters   August 2023 – Present

ACCOMPLISHMENTS
Amazon Web Services (AWS) Certified Solutions Architect   December 2023
P&R Coral Award – Cognizant   April 2021