

# Sairam Harikrishnan

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## EDUCATION

**The University of Texas at Dallas**

Master of Science, Information Technology and Management

December 2024

**GPA: 3.78**

**Anna University**, Chennai, India

Bachelor of Technology, Information Technology

May 2019

## PROFESSIONAL EXPERIENCE

**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** to customize seller portal preferences in **MariaDB**, reducing the time to **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**
- Customized Copart's seller portal for **AVIVA insurance** using **MariaDB** and **Spring Boot** to align with their process

**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

**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](#)

**InteractT** | *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, Python, SQL, R

**Technologies:** Spring Boot, Hibernate, Angular, React, Redux, Microservices, Gradle, JUnit, Docker, Microsoft Azure API Management, Azure KeyVault, AWS Fargate, AWS DynamoDB, Redis, MySQL, Oracle SQL, MongoDB

**Tools:** Jenkins, JIRA, Azure DevOps, Git, GitHub, Sonarqube, Excel

**Agile Practices:** Scrum, Extreme Programming (XP), Test Driven Development (TDD)

## STUDENT CLUBS

**Web Design Lead**, Code.exe at UTD

September 2023 - Present

**Presentation Mastery (L1)**, Toastmasters

August 2023 – Present

## ACCOMPLISHMENTS

[AWS Certified Solutions Architect](#)

December 2023

**P&R Coral Award – Cognizant**

April 2021