

Amin Renees M V

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SKILLS

- **Languages:** C++, C, Java, Python, R Programming
- **Frameworks:** HTML and CSS
- **Tools/Platforms:** MySQL, MongoDB, Docker, AWS, CI/CD
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability

EXPERIENCE

Virtual job simulation at Goldman Sachs

January 2025

Role – Software Engineering

- **About:** Conducted comprehensive assessments of IT security infrastructure to identify vulnerabilities and recommend actionable improvements.
- Detected the use of an outdated password hashing algorithm by successfully cracking passwords using Hashcat, highlighting critical security risks.
- Authored a detailed memo for senior management, proposing strategic uplifts to enhance password protection, including extending minimum password length and implementing a dedicated hashing algorithm.
- **Tech stacks used:** Python, cryptography (Basics), hashing algorithm

PROJECTS

ChatSphere – A seamless real-time chatbot experience:

December 2024

- Developed a real-time chatbot using **socket programming (C++)** to enable seamless client-server communication.
- Implemented multi-client support using TCP/IP sockets, ensuring efficient message exchange.
- Designed a scalable architecture with threading/multiprocessing to handle multiple concurrent users.
- Optimized network efficiency by implementing asynchronous I/O and message queuing for faster data transfer.
- **Tech:** Socket Programming, C++.

PricePro: Machine Learning-Powered House Price Forecasting:

October 2024

- Performed extensive data preprocessing using **Pandas** to handle missing values, feature engineering, and dataset cleaning for improved model accuracy.
- Conducted exploratory data analysis (**EDA**) using **Matplotlib and Seaborn**, visualizing key patterns, correlations, and trends in housing prices.
- Implemented feature selection techniques to identify the most significant variables affecting house prices, optimizing model performance.
- Built and evaluated predictive models (e.g., Linear Regression, Decision Trees) using scikit-learn, leveraging cleaned and well-visualized data.
- Created interactive visualizations and heatmaps with **Seaborn** to showcase insights from the dataset, enhancing data-driven decision-making.
- **Tech:** Pandas, matplotlib, seaborn.

Amazon Sales Insights Dashboard:

May 2024

- **Designed an interactive Tableau dashboard** to analyze Amazon sales data, providing key insights into revenue, customer behavior, and product trends.
- Implemented data cleaning and transformation using **Excel/Python/SQL** to prepare structured datasets for visualization.
- Utilized advanced Tableau features such as calculated fields, parameters, and LOD expressions to enhance data accuracy and reporting.
- Created dynamic visualizations including trend analysis, heatmaps, and sales performance metrics to identify key business drivers.
- **Tech:** Tableau, SQL, Python, Advanced Excel

CERTIFICATES

- Software Engineer Intern from HackerRank
- Complete DSA Preparation - Self-Paced (C++) by GFG.
- Data Analytics - Microsoft
- Mastering Data Structures and Algorithm by Udemy

Dec 2024

June – July 2024

June – July 2024

Nov – Dec 2023

ACHIEVEMENTS

- Solved 400+ problems on LeetCode: [profile](#)
- Solved 300+ problems on Geeks for Geeks: [Profile](#)

EDUCATION

Lovely Professional University

Punjab, India

• Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.60**

Since August 2022

Markaz HSS, Karanthur

Kozhikode, Kerala

• Intermediate; **Percentage: 95.4%**

April 2019 - March 2021

Malabar X'ian College HSS

Kozhikode, Kerala

• Matriculation; **Percentage: 91.4%**

April 2018 - March 2019