

# 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    - Detected the use of an outdated password hashing algorithm by successfully cracking passwords using Hashcat, highlighting critical security risks.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 Dec 2024
- Complete DSA Preparation - Self-Paced (C++) by GFG. June – July 2024
- Data Analytics - Microsoft June – July 2024
- Mastering Data Structures and Algorithm by Udemy 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