Harsha Datta Mangala

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Education

University of Houston, Cullen College of Engineering　　　　　　　　**Aug 2022 – May 2024**
Master of Science in Cybersecurity　**GPA: 3.8**　　　　　　　　　　　　　　*Houston, TX*

BMS Institute of Technology and Management　　　　　　　　　　　**Aug 2017 – Aug 2021**
*Bachelor of Engineering in **Computer Science***　　　　　　　　　　　　　　　*India*

Relevant Coursework

- Data Structures
- Operating Systems
- Algorithm Analysis
- Database Management
- Computer Networks
- Cryptography
- OOPS
- Secure Software Design

Experience

Manhattan Associates　　　　　　　　　　　　　　　　　　　**Aug 2021 – Jul 2022**
Software Engineer R&D　　　　　　　　　　　　　　　　　　　　　　　*India*

- Played a crucial role as a key member of the Outbound Team within the Warehouse Management System (WMOS), focusing on optimizing order processing and shipment management.
- Developed and maintained the essential core codebase responsible for managing outbound processes, including order fulfillment, shipping labels generation, and delivery coordination, ensuring consistency and reliability for all clients.
- Proficiently designed and improved APIs within the WMOS base code to accommodate evolving business needs, streamline outbound operations, and facilitate seamless integration with external systems.
- Collaborated closely with cross-functional teams to provide specialized code solutions and customizations, aligning the WMOS base code with client-specific requirements while maintaining a unified and efficient system.
- Demonstrated exceptional problem-solving skills by identifying and resolving over 200+ software bugs and significantly reduced regression breaks within the base code, ensuring uninterrupted and reliable order processing.
- Spearheaded the adoption of industry-leading coding practices and techniques within the WMOS base code, promoting code quality, readability, and maintainability across the team.
- Actively engaged in collaborative problem-solving sessions, contributing innovative solutions and ideas to address technical challenges and enhance the functionality of the WMOS base code.

Projects

Collaborative Whiteboard | *SocketIO, React, HTML Canvas*

- Developed a collaborative whiteboard application using React, Socket.IO, and HTML canvas.
- The application enables real-time drawing, allowing multiple users to interact simultaneously on a shared digital canvas.
- Maintained a persistent whiteboard state across users and sessions, ensuring that changes made by one user are immediately reflected for all participants, providing a seamless collaborative experience.

Expense Summary Bot | *Python, SplitwiseAPI, OAuthAPI, RoughJS*

- Developed a Python automation script that seamlessly integrates Splitwise and Chase APIs, providing users with real-time, accurate expense tracking.
- Spearheaded the integration of Splitwise and Chase APIs, that allows immediate access to expense details and account summaries, enhancing overall user experience.
- Implemented OAuth 2.0 authentication to ensure secure access to Splitwise and Chase APIs.

Blockchain Transaction Management | *Python, Flask, Bootstrap*

- Designed a Blockchain transaction system using Python to simulate the common functions of using a crypto wallet.
- Used Bootstrap to create a GUI that supports actions such as creating a wallet, send, receive, list all accounts, etc.
- Implemented cryptographic functions such as RSA, SHA to verify transaction signatures and validate them.

Technical Skills

Languages: Java, Python, C++, JavaScript, SQL　　　**Databases:** MySQL, MongoDB, Oracle SQL
Developer Tools: VS Code, Eclipse, GIT, Remix　　　**Frameworks:** Spring, CORBA, React

Leadership & Achievements

- **Attained the top rank (#1)** among **800+** active registered users on **Geeks for Geeks Practice** platform at the University of Houston, showcasing proficiency and excellence in programming.
- Elected by peers as the **Class Representative** to facilitate effective communication between students and faculty, actively addressing and resolving student concerns.
- Demonstrated leadership as the **Placement Coordinator** during undergraduate studies, overseeing a class of 80 students and serving as a crucial liaison between students and the placement cell