Harsh Gopalan

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Education

The University of Texas at Dallas | Richardson, Texas   **August 2020 - December 2023**
Bachelor of Science in Computer Science   **GPA: 3.908/4.0**
- **Honors**: Magna Cum Laude, Dean's List, Academic Excellence Scholarship Recipient
- **Relevant Coursework**: Data Structures, Software Methodology, Database Systems, Operating Systems, Computer Architecture, UNIX System Programming, Introduction to Machine Learning, Digital Logic Design

Experience

Bank of America   **June 2023 – August 2023**
Software Engineer Intern   *Charlotte, North Carolina*
- Played a key role in the Anti Money Laundering field, specializing in Financial Crimes Technology
- Navigated Teradata to execute and complete use cases, ensuring compliance with audit requests from the business side
- Created comprehensive documentation for architecture flow analysis for a better understanding of complex systems
- Provided essential support to address and fulfill ongoing business requests from the client side

HCLTech   **May 2022 – August 2022**
Software Engineer Intern   *Frisco, Texas*
- Designed and developed a microservices catalog using Backstage software for T-Mobile as the client
- Integrated Backstage into T-Mobile's RabbitMQ project application, incorporating dependency trees and documentation
- Automated YAML file generation for technical documentation with Python scripts
- Practiced Agile methodologies, including Scrum and Sprint Planning, for efficient project management

Projects

Virtual TA Chatbot | *Dialogflow CX, HTML, CSS, Javascript*   **August 2023 - December 2023**
- Developed a Virtual Teaching Assistant chatbot using Google Cloud's Dialogflow CX for CS 4349 students, providing prompt, personalized responses to course queries and integrating seamlessly into a user-friendly website
- Designed chatbot with the capability of addressing inquiries related to syllabus details, test dates, and course logistics
- Provided students the choice to engage with a live representative over the phone for additional support

Professor Rating Toolkit (KnowYourProfessor) | *React.js, Postman API*   **November 2022**
- Created a user-friendly React web application integrating Rate My Professor and UTD Grades data
- Utilized Nebula Lab and RateMyProfessor APIs for professor data, ratings, and reviews
- Implemented a user-friendly search bar and designed an informative interface displaying professor details
- Enabled one-click access to a professor's UTD Grades class history

Inventory Tracking System | *UI Design, HTML/CSS, MySQL, Node.js*   **January 2022 - May 2022**
- Led the design and conceptualization of an efficient inventory tracking system for UT Dallas Comet Cupboard
- Collaborated on a web application for seamless integration with the inventory system, improving website accessibility
- Initiated and oversaw the integration of the inventory web app with the central database

Java FX Calculator | *Java, IntelliJ IDEA CE, JavaFX*   **December 2021**
- Designed and developed an interactive calculator using JavaFX with a user-friendly GUI
- Enhanced usability by performing fundamental mathematical operations
- Implemented robust error handling and clickable buttons for a seamless user experience

Technical Skills

Languages: Java, C++, Python, HTML/CSS, MySQL, Teradata, UNIX, MIPS Assembly
Developer Tools: Xcode, VS Code, Eclipse, IntelliJ IDEA CE, Maven, Backstage
Technologies/Frameworks: Linux, GitHub, Pandas, NumPy, Jupyter, Dialogflow CX

Activities

Association of Computing Machinery (ACM) | *Member*   **August 2021 - December 2023**

Google Developer Student Clubs (GDSC) | *Member*   **August 2021 - December 2023**

HackUTD (University Hackathon) | *Participant*   **November 2022**