VAIBHAV KARANAM

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EDUCATION

Masters of Computer Science   Dec 2023
University of Illinois Urbana-Champaign, Illinois
GPA: 4.0
Relevant Coursework: Data Mining, Text Information Systems, Data Visualization, Cloud Computing Applications, Foundations of Data Curation, Theory and Practice of Data Cleaning

Bachelor of Science in Computer Engineering   Dec 2021
Texas A&M University, College Station, Texas
GPA: 3.44

SKILLS

Programming Knowledge in Python (including Pandas, Numpy and Regex libraries), MySQL, C++, HTML/CSS/Bootstrap
Visualization Knowledge in Tableau, Microsoft Power BI and D3.js
Additional Skills in PowerApps, Power Automate, and Microsoft Office Suite

EXPERIENCE

PEPSICO INC.

IT ASSOCIATE ANALYST   *Feb 2022 - Present*

- Lead delivery of Data Quality Rules for Extraction, Transformation and Load (ETL) and work with functional data teams and business streams to perform data testing.
- Gather business requirements and translate them into Data Quality Rules and review Field Mapping Documents to ensure Global Template Standards.
- Developed and deployed the Governance Billing Process and Problem Management Model and Application. The two processes are completely automated and consists of project data collection, analysis, estimation toolset, approval routing and Tableau dashboard reporting. The Governance Billing Model generated $40K in internal revenue in 2022.
- Performed data curation and created PowerBI and Tableau visualization dashboards for enterprise governance testing activities and worked cross-functionally to support team objectives.
- Assisted sector leads with Statement of Work (SOW) contracts for managed partners.

IT ANALYST INTERN   May 2021 - Aug 2021

- Created an automated workflow to implement billing for Enterprise Testing Services team's governance activities on all development projects across PepsiCo.
- Developed an initial go-to-market IoT strategy for the SodaStream platform as part of the PepsiCo Intern Challenge.

PROJECTS

- **Tetra-Diet Recommender for diseases**: Team lead and algorithm programmer for the project as part of CS 410 Text Information Systems 2022. The project consisted of a web scraper, text entailment analysis using RoBERTa model and a webpage to host the results.
- **Piano Man**: Project Manager and integration programmer for CSCE 483 (Undergrad Computer Engineering Senior Capstone 2021). The project can read sheet music using Optical Music Recognition library and play a physical piano using hardware built using Raspberry Pi, Servo Motors and 3-D printed case.
- **SpaceCraft**: Developed front-end desktop launcher components for multi-user engineering platform using Java as part of SpaceCraft Research Team. The application was presented in South by Southwest (SXSW) 2019.
- **Shoreline Defense System**: 3rd place in National Security Agency (NSA) partnered Aggies Invent 2018. Invention identifies and visualizes commercial Underwater Unmanned Systems and creates a 3-D model to characterize system paths and operational footprint.

ACTIVITIES

- IT Internship event co-lead for PepsiCo's Summer 2022 IT Internship program
- Represented PepsiCo at HackDFW hackathon 2022 and campus recruitment events