

YAMINI ULAGANATHAN

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EDUCATION

Northwestern University, *Master of Science in Computer Science*, **GPA: 3.9/4.0**

09/2021 - 06/2023

Relevant Coursework : Design and Analysis of Algorithms, Scalable Software Architecture, Human Computer Interaction, Artificial Intelligence, Machine Learning, Natural Language Processing, AR/VR Studio

CMR Institute of Technology, *Bachelor of Engineering in Information Science and Engineering*

07/2015 - 07/2019

Relevant Coursework : OS, Computer Networks, Software Testing, Data Mining & Warehousing, Cryptography & Network Security

WORK EXPERIENCE

Software Engineer, *Manhattan Associates*

12/2019 - 08/2021

- Independently developed multiple scalable end to end features and integrated them into the current supply chain and warehouse management software using Java and SpringBoot
- Refactored existing features into a micro-service based architecture which improved maintainability and decreased latency by 20%
- Collaborated with 4 engineers to design and develop REST API's to fetch and update inventory data using Java and SpringBoot
- Improved user satisfaction by 87% by redesigning the UX so they could seamlessly view and update warehouse data using JSP
- Provided real-time updates and changes for clients by deploying the ware on GCP

Software Engineer Intern, *Manhattan Associates*

08/2019 - 10/2019

- Developed a RESTful API-driven web application to allow users to add, update, view, and escalate employee feedback and complaints using React, Java, and Oracle DB
- Designed and Implemented 2 separate seamless User Interface views for employees and administration based on their roles using React Router
- Built a robust back-end system that exposes role-restricted APIs using SpringBoot & JPA to block ~3000 unauthorized requests per month
- Increased efficiency by 40% by developing an automated system to escalate unresolved feedback in a User Acceptance Testing environment using Java

Automation Engineer Intern, *Quess Corp*

02/2019 - 08/2019

- Spearheaded a project to create a web based visualization dashboard (AngularJS) to view employee and departmental performance.
- Built and optimized the tool to run in ~20s to collect, clean and analyze data, saving 4.5h of manual work time.
- Increased efficiency by 40% by developing an automated project tracker that showed progress, contributions, milestones and next steps for projects using UiPath (RPA) and Python.

SKILLS

- Programming Languages:** Java , C++, JavaScript, Python, C, VBA
- Databases:** MySQL, Oracle
- Frameworks:** *Proficient:* Spring Boot, React, ExpressJS and NodeJS (with Mocha/Chai), Hibernate, Flask. *Familiar:* Django, Ignite
- Tools:** AWS, JIRA, Jenkins, Git, GitHub, Salesforce

SELECT PROJECTS

- Trend Talk:** Developed a visualization tool using Matplotlib that performs NLP-based analysis of trends on social media about fashion. Created NER and Topic Models that were able to identify the entities with an accuracy of 97% and 93% respectively in the dataset.
- drfE** (Automated Data Cleaning) : Developed a macOS application for cleaning large spreadsheets, with an accuracy of 90% to speed up the workflow of data scientists, saving 80% of their total work time. Implemented a UI that allows the user upload files, set configurations, download the cleaned file and view a summary graph of the changes made, with a user satisfaction of 92%.
- Recipe Transformer:** Developed a CLI tool that performs NLP-based transformation of recipes (takes URL input) to and from vegetarian, different quantity or cuisine, gluten or lactose free, etc. using several NLP libraries like NLTK, BeautifulSoup4.
- Event Interpreter:** Developed a CLI tool that performs NLP-based web scraping application for awards shows to extract names and information. Applied sentiment analysis to analyze red carpet looks, controversies, humor, parties, acts and sentiments surrounding the event using NLP libraries like spaCy, NLTK, RegEx
- Halloween Third Place:** Created a virtual reality (VR) halloween themed environment where users could interact with each other and their surroundings using JavaScript & CSS on Glitch WebXR.

RESEARCH AND OTHER EXPERIENCE

- Northwestern University**, [Tiilt Lab](#) (SportsSense) 09/2022 - 06/2023
 - Developed an interactive UI to inspire computational curiosity in children through visual art creation using React
 - Created logic based art from normalized movement data via BBC micro:bit sensors worn on the wrist during sports play using p5.js & JavaScript
- Northwestern University**, Peer Mentor / Teaching Assistant (Course: CS330 Human Computer Interaction) 01/2023 - 03/2023
- Open source contribution** : [Google Blockly](#), Updated block-dynamic-connection to use JSON toolbox 08/2022 - 08/2022
- Publication** : **Smart Crop Monitoring - IoT, Cloud, Machine Learning & Android App**, International Journal of Engineering & Advanced Technology

LEADERSHIP AND AWARDS

- Commencement speaker**, Northwestern University, Class of 2023 (06/2023)
- Data Science Fellow**, Correlation One Class of 2023, selected among the 90 out of 4000 applicants (09/2022)
- Selected to present a technical seminar** on "Emotion Recognition using Facial Expressions", WiC conference (04/2022)
- Newspaper Publication**, Home Automation Project, Selected among top 3 of the 2019 engineering batch, published in a local newspaper (08/2019)
- Winner** of Google India Challenge Scholarship (02/2018)