

HARISAHAN NOOKALA VENKATA

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Education

University Of Maryland

Masters in Computer Science - GPA: 3.88

Sep. 2022 – May 2024

Baltimore County, Maryland

Vellore Institute Of Technology

Bachelors of Technology in Information Technology - GPA: 3.37

June. 2017 – May 2021

Vellore, India

Experience

University Of Maryland

Research Assistant

Jan 2023 – Present

Baltimore, Maryland

- Orchestrated research initiatives as a Research Assistant for a funded project focused on **"Story Completion Tasks for Diagnosis of Mental Illness in the Youth"** employing (LLMs), **BERT**, and NLP techniques.
- Engineered and optimized an innovative story retrieval pipeline utilizing **Tf-Idf**, **BM-25**, **MentalBERT**, and **FAISS**, dramatically improving the efficiency and precision of the project's narrative analysis component.
- Architected and deployed a responsive web application with **HTML5**, **JavaScript**, **ReactJS**, and **Tailwind CSS**, compiled through Maven and Webpack. This cutting-edge, AI-driven mental health diagnostic tool targets early detection in adolescents.

Wipro Ltd.

Project Engineer

Jul 2021 – Aug 2022

Bengaluru, India

- Data Streaming and Processing:** Implemented and managed **Apache Kafka** for real-time event streaming, facilitating efficient communication between microservices and improving data processing times.
- Streamlined Automation:** Coordinated closely with Central DevOps and Operations teams, leveraging expertise to architect and diligently implement over 25 build and deployment jobs using **Jenkins** Job DSL.
- Incident Resolution:** Efficiently resolved an average of 10 weekly tickets related to Jenkins job failures, **Gerrit** branch management, Kafka-related issues, and other DevOps issues, improving system uptime by 20%.
- CI/CD Pipelines:** Spearheaded the design and implementation of 5+ CI pipelines, bundling multiple test scripts and build artifacts. Created a comprehensive **CI/CD** pipeline for a Java project that improved deployment speed by 40%.
- Version Control:** Attained high accuracy in code merges using **GIT**, enhancing team collaboration.
- Skill Acquisition:** Gained hands-on experience in key DevOps and Agile tools such as **SonarQube**, **Docker**, **Kubernetes**, and **Apache Kafka**, leading to a 20% increase in project efficiency.

SelectDine

Developer Intern

Jul 2018 – Sept 2018

Vellore, India

- Spearheaded the architecture and development of engaging, high-performance user interfaces using **ReactJS**, closely following best practices in **UX/UI** design.
- Implemented **performance optimizations**, employing techniques such as lazy-loading, code-splitting, and component memoization, resulting in a 20% improvement in page-load times.

Projects

GeoCOVID India | Java, Android Studio, XML, Flask, Volley, Elasticsearch, Google Maps SDK

- Designed an Android app to update India's residents on real-time COVID-19 status and developments within nation.
- Created a Flask backend to serve as a middle layer between the app and the main **API** for data consistency.
- Integrated a caching mechanism (using **Flask-Caching**) on the Flask backend to reduce redundant API calls, speeding up data retrieval, enhancing performance, and significantly reducing server load.

Gym Reservation Bot | Python, Selenium, Google Cloud Console

- Developed an automatic bot using Python and **Google Cloud Console** to register myself for a timeslot at my gym.
- Implemented **Selenium** to create an instance of Chrome in order to interact with the correct elements of the web page.
- Created a Linux virtual machine to run on Google Cloud so that the program is able to run everyday from the cloud.

Technical Skills

Programming Languages: Python, Java, C/C++, C#, Go, Scala, HTML/CSS, JavaScript, MySQL, MongoDB

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, MATLAB App Designer

Technologies/Frameworks: Jenkins, Unity, JavaFX, JSP, Flask, Git, SonarQube, Nexus, Maven, SVN, Artifactory, ReactJS, NodeJS, ExpressJS, Flutter, Kubernetes, Ansible, Docker, Gerrit, JIRA, Confluence, SDLC, Spring, SpringBoot, JDBC, Hibernate, Jakarta Servlet