Shoaib Mohammed

+1(312) 483-4710 | smohammed7@hawk.iit.edu | shoaib7310.netlify.app | github.com/shoaibmohammed7 | linkedin.com/in/shoaib-md

WORK EXPERIENCE

Illinois Institute of Technology (*Graduate Assistant*)   **Chicago, IL   May 2023 - Present**
- Developed compelling chatbot content and support resources, significantly enhancing user experience and optimizing operational efficiency. Successfully programmed an AI Bot that resulted in a notable 40% reduction in student wait times.

Cognizant Technology Solutions (*Programmer Analyst*)   **Aug 2020 - Jul 2022**
- Developed React]S-based apps that let us use the same codebase to render pages on the client and the server.
- Worked on building Java Spring Boot Microservices and Angular Frontend for an E-commerce Application.
- Designed Single Page Application (SPA) using: Angular, Bootstrap, TypeScript, CSS3, HTML5.
- Skilled in addressing high-priority production issues through Root Cause Analysis, effectively resolving problems based on user feedback.
- Leveraged expertise in components within a Java web development stack.
- Worked extensively in the implementation of payment REST API which reduced the manual work of employees by 30%.
- Implemented a robust user experience by creating 20+ new features, & resolved 10+ performance issues and 15+ bugs

Cognizant Technology Solutions (*Engineering Intern*)   **Mar 2020 -Jul 2020**
- Ensure 3 different application's, security and ability to interact with multiple APIs and databases.
- Developed automation scripts to test all the components using Tosca automation tool which reduced the manual load by 50%.
- Gained hands-on experience in Bootstrap, Foundation, Express, and similar back-end like Node.js, as well as front-end presentation frameworks for web applications.

PROJECTS & PUBLICATIONS

Predictive and Adaptive Payment Network (PAPN) - [GitHub]   **Apr 2024**
- Significantly improving financial efficiency and reducing transaction costs.Enhanced security and fraud prevention, substantially lowering potential financial risks.

RAG Application For Youtube - Langchain**|**Pinecone**|**Embeddings **|**Python **[GitHub]**   **Feb 2024**
- Developed RAG application, combining OpenAI's language models and Pinecone's vector database with Whisper for audio transcription, to provide dynamic responses from YouTube video content.

Enhancing BERT Fine-Tuning through Data Distillation- Python**|**PyTorch**|**Data Distillation   **Dec 2023**
- The study utilized data distillation to create a small number of synthetic examples from an original dataset for tasks like Similarity, Textual Entailment, and Word Sense Disambiguation within the SuperGLUE benchmark, with the goal of optimizing the fine-tuning process of Large Language Models (LLMs). The research examined how variations in dataset size and complexity impacted both the precision and computational effort required for these AI tasks.

Reddit Network Analysis - [Github]   **Mar 2023**
- Successfully gathered data from the Reddit API to construct an extensive social network comprising 500 nodes, setting a solid groundwork for both analysis and visualization.

HomeHub Ecommerce Website - Spring**|**Spring Boot**|**MVC**|** MySQL**|** Hibernate **[Github]**   **Dec 2022**
- Built production ready app using Java Spring Boot (MVC), & Improved code speed, quality, reliability by using Swagger for API testing

Brain Tumor Detection - Transfer Learning**|**CNN**|**ResNet-50**|**Inception-V3**|**VGG-16**|** Colab **[IEEEXplore]**   **Jan 2022**

Space Debris Data Unit - Image processing**|**OpenCV**|**SIFT **[IEEEXplore]**   **Nov 2021**

Automated Traffic Ticket Checking System using IoT - [IRJET]   **Sep 2020**

TECHNICAL SKILLS

Programming languages   : Python, JavaScript/TypeScript,Java,C/C++,HTML/CSS | **Frameworks/Libraries:** React,Angular,NodeJS,Gatsby, Express,Spring Boot,Graph QL,Relay,Django, Flask,OpenCV, Tesseract,Pandas,NumPy | **Databases & File System:** SQL/MySQL, Postgres, MongoDB,Elastic Stack,Kafka |**Cloud & DevOps :** AWS S3, Fargate, ECS, Docker, Git,Terraform,Jenkins,Kubernetes,JIRA. |**Others :** Linux System, Apache Tomcat,UML, Microservices.

EDUCATION

Illinois Institute of Technology, Chicago   **Aug 2022 - May2024**
Masters in Computer Science

Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad,India   **Aug 2017 - Jul 2021**
Bachelor of Technology Computer Engineering