Alphy Benny

Software Developer

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EDUCATION

Master's, Information Technology and Management   08/2023 – present │ Chicago, United States
Illinois Institute of Technology
- Relevant coursework : Java Programming, Data Analytics, Android, Python, Machine Learning

Bachelor of Technology in Computer Science   08/2017 – 07/2021 │ Kerala, India
A.P.J Abdul Kalam Technological University
- Relevant coursework: Data structures and algorithms, Computer System Architecture, Computer Networks

PROFESSIONAL EXPERIENCE

Software Developer Intern   06/2024 – present │ Chicago, USA
Leap of Faith Technologies, Inc
- Developed and optimized applications for **Electronic Health Record (EHR)** data management and integration using **Python, Java, NLP, HL7 & FHIR** enhancing data processing efficiency.
- Implemented **AWS-based AI-driven ETL pipelines** using **Amazon Bedrock LLM, OCR, and NLP** to convert handwritten medical records from the 1800s into structured, searchable text, improving data accessibility by 30%.
- Built an **ETL tool** using **Python** to integrate clinical data in **FHIR, JSON, and CSV formats** into the **OMOP Common Data Model (CDM)**, ensuring interoperability.
- Designed and developed a **parallel processing DNA oncogenicity analysis system** using **Celery, RESTful APIs, and rule-based scoring**, reducing computation time by 40%.

Graduate Teaching Assistant   01/2024 – present │ Chicago, USA
Illinois Institute of Technology
- Addressed and resolved student queries, mentoring over 100 students in a graduate-level course on human-computer interaction, leading to improved student understanding and engagement

Software Developer   08/2021 – 08/2023 │ Kerala, India
UST
- Engineered and deployed a **document parsing system** using **C#, .NET, and Azure**, improving **data extraction efficiency by 20%.**
- Developed **microservices-based** applications, implementing **REST APIs** to enhance system modularity and scalability, resulting in improved system performance and easier maintenance.
- Designed and built a **File Parser UI** using **Angular, Bootstrap, and HTML5/CSS3**, enabling JSON-based parsing rule configuration, reducing configuration time by 30%.
- Optimized application performance and cost-efficiency using **Azure cloud technologies (Azure Functions, Azure Blob Storage, and Cosmos DB)** leading to faster processing times and reduced operational costs.

PROJECTS

Data Visualisation Tool | Python,Django
- Created a **Django-based** dashboard for a local hospital's **Outpatient Department (OPD) analysis**, enabling department-wise and doctor-wise trend analysis.
- Integrated **Python, Pandas, and Matplotlib** to provide real-time visual analytics.

SKILLS AND CERTIFICATIONS

Languages
C#, Python, Django, SQL, HTML, CSS , .NET, Angular, Bootstrap, JavaScript

Developer Tools and Data Management
Visual Studio Code, Git, Postman, Microservices Architecture, Celery, OMOP, HL7, FHIR, ETL.

Certifications
Microsoft Certified : Azure Data Fundamentals DP-900, Microsoft Certified : Azure Fundamentals AZ-900

Leadership experiences
Senator at Student Government Organisation of IIT