

Mohamed Sahim

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I am a Driven Data Scientist and Software Engineer with over a year of experience in analytics and full-stack development. Proficient in Python, SQL, HTML, CSS, Azure Cloud, machine learning, AI, and NLP. Skilled in deriving actionable insights from large datasets, building predictive models, and developing web applications. Strong problem-solver with a collaborative mindset, adept at using Agile methodologies and CI/CD processes. Passionate about leveraging technology to drive business optimization and ready to contribute to a dynamic team.

Experience

● Trainee Engineer

March 2023 - April 2024

● Workiy Technology, Chennai, TamilNadu, India

Experience Summary:

- Having 1+ years of experience in Developing and supporting in various applications
- Experience with **Python**, (NLP,AI,ML), **HTML**, **CSS**, **Drupal**.
- Utilized strong understanding of Azure fundamentals to diagnose and resolve technical issues or escalate to appropriate teams when necessary.
- Proficient in Azure technologies such as **Azure Fundamentals (AZ-900)**.
- Experience in categorizing, prioritizing, diagnosing, and escalating incidents as appropriate.
- Proficient in leveraging Azure's PaaS offerings to build, deploy, and manage applications without the complexity of infrastructure management.
- Have a good Knowledge in **Azure SQL Database**, **ADB**, **ADF** and more.
- Have a good Knowledge in developing RESTful APIs with a focus on security, scalability, and maintainability, using **Python**.
- Proven expertise in leveraging CI/CD pipelines to automate the build, test, and deployment stages, significantly improving development workflows and accelerating product delivery.
- Provided first-line technical support and troubleshooting assistance for Azure cloud services to ensure smooth operations for clients.
- Recognized for exceptional customer service skills and received positive feedback from end-users for problem-solving abilities.
- Good Exposure to **Agile Methodology**, Involved in Scrum meetings, Daily Status meetings.
- Effective communication, interpersonal and team working skills, continual drive to learn new tools a technologies.
- Have a good Knowledge in **CI/CD pipelines**.

Projects

1.) **Project Name** : Jevitty, Canada

Role : Backend Developer

Description:

Jevitty is a unique mobile app that combines science and data to project human life expectancy. Our aim is to provide actionable insights to help users live longer and healthier lives. The Jevitty score, which ranges from 0 to 200, reflects an individual's health potential. We follow a holistic actuarial approach, considering both health data and external factors that may impact lifespan.

Tools & Languages used: Python, PostgreSQL, GCP,JIRA, GITLAB, React, Node.js

Roles & Responsibilities:

- Served as a backend developer for Project Jevitty, utilizing Python, React, TypeScript, PostgreSQL, and Google Cloud Platform (GCP) to build and maintain robust application functionalities.
- Developed and integrated SMTP mail functionalities to automate the delivery of scan expiry notifications to users, enhancing communication and user experience by providing timely updates.
- Actively participated in Agile development cycles, including daily scrum meetings and regular sprint reviews, to continuously adapt and enhance project workflows.
- Provided first-level technical support by addressing and resolving tickets raised by users in a timely manner, ensuring user satisfaction and smooth operation of the application.
- Specialized in the body composition (bodycomp) module, analyzing and resolving issues where user scans were not displaying correctly on the mobile app. Implemented fixes and enhancements to improve visibility and functionality.
- Collaborated closely with the frontend and support teams to troubleshoot and solve complex issues, enhancing app reliability and user experience.
- Created detailed documentation of troubleshooting methods and resolutions, contributing to a growing knowledge base to assist both users and developers.
- Utilized a strong understanding of cloud services (GCP) and databases (PostgreSQL) to implement and refine application features effectively.
- Engaged in continuous learning and application of new technologies to improve the performance and scalability of backend services.
- Improved internal communication and problem-solving strategies within the team by providing clear updates on issues and progress during status meetings.
- Proactively oversaw and maintained CI/CD pipelines to facilitate smooth delivery operations.
- Documented all support procedures, issue resolutions, and troubleshooting steps, contributing to a robust knowledge base that facilitated efficient problem-solving for the support team.

2.) **Project Name : Fountain of Health, Canada**

Role : Web Developer

Description:

As web developer for the Fountain of Health project, skillfully managed a thorough transition from Drupal 7 to Drupal 10. This involved seamlessly combining four individual websites into two integrated web applications and two independent web sites. The primary goal of this significant overhaul was to elevate user experience, optimize site performance, and simplify content management.. The primary goal of this significant overhaul was to elevate user experience, optimize site performance, and simplify content management.

Tools & Languages used: Drupal, HTML, CSS, JS SQL, Filezilla, Jira, Azure

Roles & Responsibilities:

- Developed the Fountain of Health project, a health monitoring and analytics platform aimed at enhancing user well-being, by utilizing my technical expertise to create a robust and efficient system.
- Performed regular code reviews, promptly identified and rectified bugs, and optimized system performance to maintain a high-quality, efficient product.
- Documented all support procedures, issue resolutions, and troubleshooting steps, contributing to a robust knowledge base that facilitated efficient problem-solving for the support team.

- Designed engaging web pages and crafted intuitive views using Drupal, focusing on creating an attractive and user-friendly website.
- Regularly updated created, and Designed content on the Drupal platform, ensuring information was current and engaging, while managing content types, taxonomies, and views specific to project requirements.
- Configured and managed web hosting and server setups, ensuring high availability and performance of the platform.
- Employed Agile methodologies throughout the project lifecycle, enhancing team collaboration and project adaptability.
- Utilized Jira for project management, tracking tasks and bugs efficiently to meet project timelines and objectives.

3.) **Project Name : Statement of Work Automation** **Role : Python & NLP Engineer**

Description:

Developed a web-based document summarization tool using Flask for backend connectivity, allowing users to upload DOCX files which are then converted to TXT format for processing. Implemented regular expressions to extract key fields from documents, which were then analyzed and summarized by transformer models to provide concise insights. Designed the user interface with HTML and CSS, featuring a dedicated page for displaying summarized outputs with functionality to easily copy results, enhancing user experience and interaction.

Tools & Languages used: Python-(Flask, NLP),HTML, CSS, JS,Transformer

Roles & Responsibilities:

- Spearheaded the design and development of a web-based document summarization application, ensuring the tool met user requirements and project specifications.
- Utilized Flask to establish and manage server-side logic, enabling robust backend connectivity and seamless data processing.
- Crafted and deployed regular expression (regex) patterns to accurately extract relevant information from DOCX documents after conversion to TXT format.
- Integrated advanced transformer models to analyze and summarize text, focusing on extracting essential content and presenting it in a digestible form
- Designed and implemented the user interface using HTML and CSS, creating a responsive and intuitive layout that allows users to upload documents and view summaries efficiently.
- Developed features such as a result display page with copy functionality, enhancing the user experience by providing practical, easy-to-use tools for interacting with the summarized output.
- Implemented REST APIs to facilitate communication between the frontend and backend, ensuring efficient data exchange and enhancing the application's scalability.
- Conducted thorough testing and debugging to ensure the application performed consistently across all stages of document handling and summarization.
- Authored comprehensive documentation on the system's functionality and user guide to assist end-users in navigating and utilizing the application effectively.

4.) **Project Name** : Sepak Takraw, Canada

Role : Web Developer

Description:

As a Web Developer on the Sepak Takraw project, I played a key role in the seamless transition from Drupal 7 to Drupal 10, incorporating a contemporary redesign. This extensive upgrade was centered on elevating user experience, enhancing site performance, and refining content management workflows.

Tools & Languages used: Drupal, HTML, CSS, JS, PHP, Cpanel

Roles & Responsibilities:

- Designed and maintained engaging web pages using Drupal, focusing on user-friendly interfaces and content management customization to enhance site aesthetics and functionality.
- Managed web hosting and server configurations to ensure optimal site performance and high availability, while employing Agile methodologies to improve team collaboration and project adaptability.
- Utilized Jira for streamlined project management, efficiently tracking tasks and resolving issues to meet project deadlines and objectives.

Internships

1.) **Role** : DATA SCIENCE AND BUSINESS ANALYTICS INTERN

(June 2021 - July 2021)

Organization : The Sparks Foundation, Singapore

Worked on below tasks:

- Task-01 Student score predictions using supervised Machine Learning
- Task-02 Prediction using Unsupervised ML
- Task-03 Perform 'Exploratory Data Analysis' on dataset 'Sample Superstore'
- Task-04 Perform 'Exploratory Data Analysis' on dataset 'Sample Perform 'Exploratory Data Analysis' on dataset 'Global Terrorism
- Task-05 Perform 'Exploratory Data Analysis' on dataset Perform 'Exploratory Data Analysis' on dataset 'Indian Premier League
- **Tools & Languages used** : Python-(ML, NLP, Numpy, Pandas, Data Visualization and Graph Plots)

2.) **Role** : DATA SCIENCE INTERN

(December 2022 - February 2023)

Organization : Menmozhi Technologies, Tiruchirappalli

Worked on below tasks:

- Object Detection using live camera
- Sentimental Analysis using Amazon Kindle book review
- **Tools & Languages used** : Python-(ML, Yolo, Open CV, DL, NLP)

Education

● Msc Data Science

2020-2022

- Bishop Heber College,(Bharathidasan University) Tiruchirappalli
- CGPA: 7.5
- Course work: Data analysis, Artificial Intelligence machine learning, natural language processing statistical, data visualization. Proficient in Python, data scraping, data cleaning, predictive modelling ,PowerBI and Tableau.

● Bachelor of Computer Application (BCA)

2017-2020

- Jamal Mohamed College,(Bharathidasan University) Tiruchirappalli
- Credits Earned - 67%
- Course work: HTML, CSS, Python, Javascript, SQL, Microsoft Office packages, Networking.

Skills

- Python
 - NumPy, Pandas, Matplotlib, Seaborn, NLP, AI
 - Flask, Django
- Html, Css, Javascript, React
- SQL
- Drupal
- Azure Cloud Fundamentals, ADB, ADF
- Prompt Engineering
- Power BI
- Gitlab, Github
- Filezilla, Putty, Cpanel
- Microsoft Office Packages
- ETL

Certificates

- **Microsoft**
 - Azure Fundamentals AZ900
- **Bharathidasan University**
 - Office Automation
 - Programming Techniques
- **Coursera**
 - Foundations: Data, Data, Everywhere Ask
 - Questions to Make Data Driven Decisions
- **NIIT**
 - Protocols and Internetworking Standards
- **Vanderbilt University**
 - Prompt Engineering for ChatGPT

Awards

- **Team of the Year 2023 delivery** - Fountain of Health
- **Tech Champ of the Year 2023** - Workiy