Mihir Sachin Vaidya

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EXPERIENCE

Full-Stack Developer
01/2024 – Present

Hoosier Community Network   *Bloomington, IN*

- Led a team of 4 to create data library, an web app with business insights and data using **MongoDb, ExpressJS, AngularJS, NodeJS**, enhancing data accessibility for 1,000+ small business owners
- Implemented secure authentication with **BcryptJS**, **Firebase**, and **DUO**, reducing unauthorized access by 50%.
- Devised efficient bot detection system using **TensorflowJS** object detection model and **CAPTCHA**, reducing bot registration by 95%
- Orchestrated a pipeline to build and deploy app hosted on EC2 using **Jenkins, Ansible, Docker and Kubernetes** improving deployment efficiency by 30% and ensuring scalable, reliable application delivery

Software Development Co-op
08/2023 – 12/2023

Schneider Electric   *Foxborough, MA*

- Co-created a Levelized Cost of Hydrogen Calculator app using Django to compare the economic feasibility of renewable fuel production systems.
- Engineered a cost modeling algorithm in Python, improving cost estimation accuracy by 20%.
- Established real-time data acquisition via RESTful APIs for cost adjustments based on fluctuating prices and operational changes.
- Displayed interactive graphs, showing the distribution of various inputs in the LCOH calculation using JavaScript, D3.js, and Chart.js in the front-end, allowing users to visualize the impact of each variable on the overall cost.

Machine Learning & Artificial Intelligence Intern
06/2023 – 08/2023

Schneider Electric   *Foxborough, MA*

- Collaborated with cross-functional teams to analyze 20GB of ore processing system dataset using **Agile/Scrum Methodologies** , leading to improved ore yield
- Built an **ETL pipeline** to transfer **Microsoft SQL Server** data to cloud using **Azure Data Factory**, **Azure Databricks** & **Azure Synapse Analytics**, which cut manual effort by 70% & boosted data processing efficiency by 60%
- Applied **Principal Component Analysis (PCA)** to extract interrelations among variables & significant components improving the accuracy of the subsequent prediction model by 10%
- Created a predictive model to understand the machine behaviour at different inputs using **XGBoost Regression** Machine Learning Algorithm, achieving 93% accuracy

Web Developer
12/2021 – 08/2022

Sahacharya Digital Solutions PVT. LTD   *Mumbai, Maharashtra, India*

- Engineered 15 **REST APIs** for a finances management app using **ExpressJS**, **NodeJS**, **ES6**, **ReactJS**, aiding 1000+ users in tracking income and expenditure
- Optimized data storage and querying for 10,000+ records using **MySQL** and **PostgreSQL**, improving query speed by 20%
- Researched and transitioned application architecture for downloading PDFs of the records from **PhantomJS** to **PuppeteerJS**, increasing download speeds by 60%
- Established a CI/CD pipeline to automate the release of testing and production builds for Finacial apps using **Bitbucket**, & **AWS CodeDeploy**, reducing build times by 2 hours and ensuring consistent, reliable delivery

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, SQL, NoSQL JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, Express.js, Graph.js, Bootstrap, Django
Developer Tools: Git, Docker, Amazon Web Service, VS Code, Visual Studio,Spyder, IntelliJ, Eclipse, Jenkins, Fastlane
Libraries: pandas, NumPy, Matplotlib, JQuery, Puppeteer, sqlite3, Scipy, seaborn, TensorFlow
Certifications: AWS Certified Cloud Practitioner

EDUCATION

Indiana University Bloomington MS CS
08/2022 – 05/2024

University of Mumbai BE CE
08/2018 – 05/2022

PROJECTS

Blog-Writing Website | *MongoDB, ExpressJS, ReactJS, NodeJS, Flowbite, TensorFlowJS, Firebase*

- Released a technical blog website with modern UI/UX, including Light/Dark mode support using **MVC Architecture**, to enhance visual appeal and usability
- Focused on optimizing app architecture, for scalability, with Tailwind & Flowbite for precise layouts