Shaikh Saad Ali

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Work Experience

Software Developer (Python) | BINARY SEMANTICS LIMITED   Onsite | Oct 2023 – Present

- Engineered scalable chatbot leveraging **Rasa**, enhancing user access controls and mitigating critical security vulnerabilities.
- **Boosted** document **processing speed by 45%** using **hashmaps**; enhanced consignment **filtering by 50%** through advanced **set operations**.
- Improved condition **validation speed by 40%** for API flows using **bitwise operations**, streamlining REST API flows for **Google Maps** and logistics tracking.
- Streamlined report generation using **Pandas**, reducing **generation time by 60%**, enhancing accessibility for stakeholders.
- Optimized dashboard **performance by 35%** through **SQL optimization**, accelerating data retrieval speed.
- Designed migration of ERP data to **AWS S3**, reducing database **load by 30%** through URL-based storage and secure **Flask** workflows.

Teaching Assistant (DSA Course) | STEALTH STARTUP   Remote | Sep 2023 – Oct 2023

- **Mentored 30+ students** in **Data Structures and Algorithms**, **resolving 50+ advanced queries**, improving their understanding of complex concepts.
- Collaborated with instructors to refine lecture material and led sessions to strengthen **algorithmic problem-solving**.

Python Developer | FREELANCER   Remote | Jan 2023 – Jun 2023

- Built a **scalable web scraping** application, automating client data collection with **robust security protocols**.
- Improved scraping **efficiency by 60%** using **asynchronous programming** techniques, reducing execution time.
- **Technologies Used** : Python (Async I/O), Flask, Pandas.

Education

JAMIA HAMDARD, New Delhi   Jul 2019 - Jul 2023
Bachelor of Technology (B.Tech) in Computer Science Engineering; CGPA: 7.69

Open Source Projects

HEALTHCARE APPOINTMENT SCHEDULER   Project Link

- Built a responsive medical platform with **Django**, integrating user authentication, secure hosting, and **Google API**-based appointment scheduling.
- Leveraged the **MVT design pattern** to enable dynamic functionalities tailored to diverse user roles.

IMAGINATION A DJANGO PROJECT   Project Link

- Developed a **mobile-responsive** blogging site for poems, with MVT pattern implementation and user login, commenting functionality, and **CRUD operations**.

TWIZZER TWITTER EMOTION ANALYZER   Project Link

- Directed Twizzer's development, a GUI application achieving **88% accuracy** in real-time emotion prediction.
- Supervised team tasks, trained the **LSTM model**, and created the GUI. Utilized a dataset of **4.5 million samples** for model training.

Skills

Core Competencies: Data Structures & Algorithms, Process Optimization, Document Management, Workflow Automation, Data Analysis
Programming Languages: C++, Python, Java, JavaScript, SQL, HTML
Frameworks & Libraries: Flask, Django, RASA, RESTful API, Pandas, NumPy, BeautifulSoup, Scikit-learn, TensorFlow, Bootstrap, PyQt5, PySide2, Matplotlib, Seaborn
Tools & Technologies: Git, Docker, AWS S3, AWS Secret Manager, GitHub, Postman, PythonAnywhere, Kaggle, Qt Creator, Qt Designer
Databases: MySQL, SQLite, PostgreSQL, MongoDB

Certifications

- **CodeKaze Competition by Coding Ninjas** Rank 1 (AIR 1751)
- **Software Engineering Virtual Experience** JPMorgan
- **Alpha (DSA with Java) Course Completion Certificate** APNA COLLEGE
- **Prepare Data for Exploration** Google
- **Blockchain and its Applications** Blockchain and its Applications
- **Advanced CPP Training** Spoken Tutorial at IIT Bombay
- **PYTHON PROGRAMMING** Spoken Tutorial at IIT Bombay