RISHABH JAIN
Software Development Engineer

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Overview

Experienced software engineer with exposure working directly under company founders and CTO on various projects, including the development and launch of new products.

Experience

Tech Lead @Closeloop Technologies, India   June'23-Present

- Leading cross-functional teams to deliver high-quality, scalable software solutions and driving technical excellence across projects.
- Delivering quality code within the defined timelines for US-based clients.
- Develop and maintain the components for various functionalities like:
    - Playback of in-home visit recordings.
    - Visualization of transcripts and key insights from LLM bots.
- Following test-driven development standards.
- Mentor and guide team members to develop their technical skills and professional growth.

Tech stack – Python- Django, Flask, FastAPI frameworks, Celery, AWS, PostgreSQL, React.Js, PEP8, Docker, AI - LLM, Data Visualization, ETL, AWS Lambda Functions

Software Developer @Credmitra Innovations, India   November'22-May'23

- Developed OCR model for parsing bank statements from PDF (scanned and downloaded) using Python and machine learning.
- Developed an MIS dashboard to monitor loan operations for small cooperative banks using data science techniques.
- Developed backend web applications using Golang and Python.
- Worked with Golang, MongoDB, Redis, AWS, EC2, Python, ETL, Machine learning, Data science, Prometheus, and Grafana.
- Deployed the application using Docker, utilizing its containerization technology to streamline the deployment process and improve the application's portability and scalability.
- Played an active role in business and product discussions with innovative ideas.

Tech stack – Python- Django web framework, AWS, EC2, MongoDB, React.Js, GoLang.

Software Development Engineer @Tata Consultancy Services, India   May'21-November'22

- Developed web applications, implemented business logics and requirements.
- Assessed legacy applications and tools used by the customer for migration to the Microsoft Cloud environment.
- Addressing clients to fix the issues related to existing applications.
- Responsible for developing the backend code to host the application's business logic.

Tech stack – Python- Django web framework, Azure, Microsoft SQL

Projects

Volatility Forecasting in India

- Create a GARCH time series model to predict asset volatility.
- Acquired stock data through an API, cleaned and store it in a SQLite database, and build my own API to serve model predictions.

Skills used – Machine Learning, Data Visualization, ETL, Statistics

Housing Prices in Buenos Aires

- Build a linear regression model to predict apartment prices in Argentina.
- Create a data pipeline to impute missing values and encode categorical features, and improve model performance by reducing overfitting.

Skills used – Machine Learning, Data Visualization, ETL, Statistics

Analytical Admin Dashboard for Automation Systems Company

- **Collaborated with the client to gather requirements and understand their needs.**
- **Designing and developing the dashboard's functionality using Python and Django.**
- **Conducted thorough testing and troubleshooting to ensure the dashboard was error-free and met the client's requirements.**

Skills used – Python, Django web framework, HTML, CSS, JS, Bootstrap, REST api, MSSQL

A/B testing at World Quant University

- Conducted a chi-squared test to determine if sending an email can increase the program enrolment at the WQU.

Skills used – Machine Learning, Data Visualization, ETL, Chi-squared test, Statistics

OCR – Bank Statement Parsing

- Developed an OCR service to OCR scanned and downloaded PDF files for bank statements to reduce the processing time in bank's loan processes.

Skills used – Machine Learning Models, ETL, Python, Django, REST APIs

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Education & Certifications

Applied Data Science @WorldQuant University   Oct'22-May'23

- Completed eight end-to-end, applied data science projects
- Demonstrated abilities to explore and clean data, create functions and ETL pipelines to prepare training sets.
- Built machine learning models for supervised and unsupervised learning tasks, and created visualizations to explain data characteristics and model predictions for non-technical audiences.

Certificate URL - https://www.credly.com/badges/89ae3b52-94c0-4dea-b1dd-99f9dd68e130/public_url

B.Tech - Automobile Engineering @SRM Institute of Science and Technology, Delhi   May'17-May'21

- Score- 80%
- Academic Excellence in 2018 (2nd Rank)

Skills & Familiarity

- Backend web development
  - Django Rest Framework
  - Flask API
  - GoLang
- Frontend web development
  - React.Js
- Data Visualization
  - AWS Quicksight
  - Tableau
  - PowerBI
- Project Management
  - Agile methodology
  - Jira
  - Trello
  - Excel gantt charts
- Containerization - Docker
- AI, ML, LLMs
  - Lang Chain
  - Llama Index
  - OpenAI
- Machine Learning (Linear Regression, Logistic Regression, Decision Trees, Random Forests, Support Vector Machines, Neural Networks)

- Data Engineering/ ETL
  - Data Mining (Exploratory Data Analysis, Feature Engineering, Model Selection, Model Evaluation)
- Data Analysis (Statistical Modeling, Hypothesis Testing, Data Visualization)
- Cloud Platforms
  - Microsoft Azure
  - AWS
  - GCP
- RDBMS & DBMS (MySQL, SQL Server, SQLite, MongoDB, Redis)
- Code versioning
  - GitHub
  - GitLab
- Serverless computing
  - AWS Lambda Functions
- System Monitoring
  - Prometheus
  - Grafana