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Summary

My name is Umair Shahab, an expert Python Developer. I have over 3 years experience within the industry, developing high performance software and web applications. My specialty is in Backend Engineering, Web Automation, Web Scraping, Data Analytics and Data Visualization with a growing interest in Machine Learning and Artificial Intelligence. I am a hard working individual with good communication skills and attention to details.

Experience

Senior Software Engineer – Machine Learning Infrastructure

Oct 2021 - Present

Retrocausal, Redmond, Washington (Remote)

- Collaborated to develop Retroactivity, a customer facing activity recognition SAAS based system empowering factory managers with real time data capture and monitoring with the help of telemetry service dashboards built using Django Middleware and ELK Stack to get important business insights, resulting in increase in sales.
- Pioneered remote real time system using VueJS, Django Rest Framework (Django DRF), REST API and WebRTC, enabling an immersive manufacturing experience. This allowed customers to incorporate projector based visual instructions, a feature offered by competitors for \$25,000 per workstation. Implemented functional unit tests to ensure flawless workflow.
- Optimized workflow of APIs by using Celery for long running background task, Redis Caching for faster access to Postgres Relational database server, and quicker software update mechanism for seamless delivery of large updates (> 2 GB).
- Worked on different AWS services such as AWS Lambda, RDS, EC2, S3, SNS, SQS, Cloudwatch, Eventbridge, to facilitate seamless cloud integration for backend while using Azure DevOps to follow Agile Development Methodologies and following Test Driven Development (TDD), while using Object Oriented and Functional Programming paradigms. Worked with basic CI/CD and DevOps environment.

Software Engineer

Jul 2021 - Oct 2021

Securiti.ai

- Automated and assessed the Vendors according to GDPR, CCPA and LGPD compliance and ensured best practices in the code, following the Software Development LifeCycle (SDLC).
- Accelerated Vendor data collection and verification time on a large scale from manual to Automatic using Web Crawling and Scraping for related information using Selenium, BeautifulSoup and Scrapy, and scraped close to 100k websites. Used Jira, Confluence and Bitbucket to enforce Agile methodology.
- Successfully updated and automated more than 70% of missing Vendor Information.

SQA Intern

Aug 2020 - Sep 2020

Afiniti

- Beta Tested and Reported existing bugs in a web portal based calling software, and worked in collaboration with other software testers in solving the problems within the software.

Education

Bachelor of Science (B.S.) - Computer Science

Jul 2017 - Jul 2021

FAST - National University of Computer and Emerging Sciences, Karachi

- 3.5 CGPA

Skills

HARD SKILLS

Python, Flask, Django, FastAPI, PyQt, Javascript, VueJS, Htmx, Alpine JS, Selenium, Playwright, BeautifulSoup, Scrapy, Pytest, Pandas, Numpy, Matplotlib, Scikit-Learn, Keras, ELK stack, Elasticsearch, Kibana, Grafana, Prometheus, Retool, PostgreSQL, MySQL, SQLAlchemy, Sqlite, Redis, AWS Services, Docker, Linux, Bash Script, Nginx, Version Control (SVC/Git)

SOFT SKILLS

Problem solving, Creativity, Adaptability, Teamwork, Flexibility, Detail Oriented

Projects

Linkedin Job Finder

Scrape all the linkedin jobs, with search by filters such as location, job type, experience, company name etc. Used playwright to scrape data, beautifulsoup to parse html, and pandas and numpy to parse data to csv format, for further analysis.

Stock Ticker

Get Daily Stock Ticker (Close) for selected Symbols to show the price changes of stock throughout the day. The stock API is called through Flask using SQLAlchemy as ORM, and relevant data for daily stocks is displayed as a Line Chart in Retool App.

Email Client

Designed offline Email Client similar to thunderbird, using SMTP and IMAP protocol, using PyQt, which integrates and retrieve Email Inbox, Sent, Draft etc. from Gmail or any other Email service.

Steam Web Scraper

Scrape data of every game on steam using Selenium and BeautifulSoup, perform data analysis and data cleaning using Pandas, and find the games on sale with the most discount and best rating. Visualize and display data using Tkinter and Pandastable.

Skin Disease Detection (FYP)

Built a Medical Health care consumer ready Image Detection app, with the help of Domain Experts, that classifies 30+ different Skin Diseases and recommends nearby dermatologist for quick medical treatment.

Memes Classification

Classified memes separate from normal images, and using the classifier to remove unwanted memes in a mobile that take up extra space.

Certifications and Awards

Deep Learning Certification by deeplearning.ai - Coursera (2021)

Machine Learning Certification by Andrew Ng - Coursera (2021)

Programming Competition Winner by SPEC (2017)

Debug Competition Runner-up by PROCOM (2017)