



ARINDAM ROYCHOWDHURY

PYTHON DEVELOPER



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TECH STACK

Backend Frameworks > · FastAPI ·
Django · Flask ·

DRF (Django Rest Frameworks)

Tools > AWS · Jenkins · Docker ·
Postman · CI/CD · Git · Kubernetes

Testing > Pytest · unittest ·
Locust (Load Testing) · Selenium

Databases > ·
PostgreSQL with PostGis ·
InfluxDB. AWS Dynamodb ·
Elasticsearch

Practises > RESTful API Design ·
Clean Architecture ·
Automated Testing ·
Load and Performance tests



FIND ME ONLINE

LinkedIn

<https://www.linkedin.com/in/arindam-roychowdhury/>

GitHub

<http://github.com/arindam31>



SUMMARY

Python developer with a penchant for designing products with Python. Backed by 10+ years of coding - as a leader, a creator and sometimes a quality protector.



EXPERIENCE

Senior Software Engineer

Neke-Neke GmbH

Salzburg, Austria

03/2023 - 12/2024

Software services in Healthcare

- **Designed** & developed a scalable **Django** based Patient Appointment system, that eased booking for multiple diagnostic methods.
- 94% test coverage of APIs with **Pytest**.
- Used **Celery** for background task processing, cutting synchronous workloads by 50%.
- Used **Redis** cache for faster data fetching with TTL.
- Ensured strong security with **JWT** auth and **Group based permissions**.
- Expanded and Optimized **AWS Lambda** functions which resulted 2x speeds of APIs for a Vending Machine backend.
- **Mentored** junior developers, improving team efficiency and best practice adoption.
- Designed companies **first test framework** for testing AWS lambda based APIs (used **moto3** for mocking all resources)

Backend Python Developer

Pixofarm GmbH

Vienna, Austria

07/2021 - 03/2023

Agriculture Intelligence

- Expanded existing **REST APIs** with Django DRF. Optimized API responses bringing average response timings to 50% lesser.
- Introduced **Elasticsearch** and used it make search faster by 5X times.
- Developed AWS Cloud based feature (used **S3 triggers**, and Lambda) to create a complete cloud based product.
- Created detailed **graphs** and **statistics** to support data analysts in my team to help them improve their models [used NumPy, Pandas with Folium and Plotly].



EDUCATION

B.Tech

Electronics 2008



CERTIFICATION

**ISTQB foundation level
2012**



EXPERIENCE

Test Engineer

Omicron GmbH

Klaus, Austria

10/2019 - 04/2021

Power Industry testing and diagnosis instruments

- Maintained and upgraded a **Pytest** based test framework, writing integration tests for products
- Monitored daily test runs and results.
- Introduced performance tests and visualized metrics using **Grafana** and **InfluxDB**

Principle Engineer

IFM Electronic GmbH

Pune, India

03/2014 - 09/2019

German based Industrial sensors and OEM manufacturing

- Technologies used: Python, unit test, SVN , stress testing, Jenkins, Django, Flask
- Developed unit tests for embedded firmware testing
- Automated test execution for multiple projects using Jenkins
- Created UI tools for test automation with PyQt
- Built a single-page web app (Flask) as a support tool for a product
- Developed a web app for interview scheduling, travel coordination, and employee billing management



PROJECTS

Interview Management Tool (Django Demo)

A Django-based interview scheduling platform using docker, JWT for tokens, providing APIs.

- Dockerized for easy deployment.
- RESTful design with serialized responses.
- Customer can manage Candidate Application through all the stages.
- Project is tested with Pytest based API tests with 90% coverage.

🔗 Link: https://github.com/arindam31/Interview_management

City Weather with Flask (Flask Demo)

A project demonstrating Flask API development with complete Swagger docs.

- Synchronized weather data for cities using APIs
- Shows usage of mock data from JSON files
- Demonstrates RESTful design with Pydantic and SQLAlchemy based APIs
- Shows 3rd party API usage within API
- Show how to write tests for a Flask project.

🔗 <https://github.com/arindam31/CityWeatherWithFlask>