

Adrian Dolha

Full-Stack Python and React Freelancer

As a freelance Python and React developer, I specialize in web development, data engineering, and software architecture. With a passion for delivering exceptional user experiences, I'm constantly seeking new challenges and opportunities to build scalable and high-performing solutions using Python, React, and Cloud. As a skilled Software Architect, I've worked in the information technology and services industry, bringing my expertise in Python, React, Java, Cloud and Enterprise Architecture to every project I undertake.



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WORK EXPERIENCE

Full-Stack Python and React Developer

Freelance

05/2022 - Present

Achievements/Tasks

- Implemented chat functionality in Django and React.
- Added multi-tenancy support to an existing application using Django and MySQL.
- Achieved up to 30x improvement in API performance (Django REST Framework) by optimizing queries and caching results using Redis and MySQL, resulting in faster response times and improved user experience.
- Created a key WordPress plugin in React that integrates seamlessly with the existing API (Django REST Framework), providing clients with a powerful and flexible tool for extending their web applications with custom functionality.
- Scraped data from multiple websites using Beautiful Soup, Pandas, and Airflow.
- Designed and implemented a solution to scale a Django application in AWS (ECS, ECR, CloudFormation, and more).
- Implemented social authentication in Flask using OAuth2 for Google and Facebook, enabling users to easily and securely sign in using their social media accounts.
- Developed a PDF report generation system using ReportLab and Django, enabling the creation of customizable and professional reports with features such as dynamic charts and graphs, tables, and images.

Python AWS Serverless React

Head of Development

Endava

01/2019 - 04/2022

Achievements/Tasks

- Coordinated Development Discipline with 10 Discipline Leads and over 400 developers.
- Built 6 technical communities for Java, .NET, Android, iOS, Frontend, Python
- Grewed the Discipline from 300 to 400 members
- Doubled Frontend developers.
- Responsible for workforce planning, hiring, juniors intake, technical interviews.
- Involved in presales.

Management Workforce Planning Salary Reviews Technical Communities Presales People Development Career Coach

Senior Architect

Endava

05/2018 - 06/2019

Achievements/Tasks

- Coordinated the development effort for the team.
- Created on-boarding procedure for new team members.

SKILLS

Backend

Python Flask Django Airflow Pandas Tabula Seaborn

Java Spring Spring Boot Spring JPA Spring WebFlow Spring Web MVC

SQL Server Oracle Postgres DynamoDb Redis RabbitMQ

Cloud

AWS Lambda API Gateway DynamoDB RDS Redshift Cognito S3 SNS SQS CloudFront Route53

ECS EKS Parameter Store Secrets Manager

Azure AKS Azure Functions Azure API Management Azure Event Hub Azure Blob Storage Azure Key Vault

Azure Cosmos DB

Devops

Jenkins Terraform Tekton ArgoCD AWS SAM AWS CodePipeline AWS CodeBuild Kubernetes Docker

Github Actions

Frontend

React Material UI Bootstrap

Javascript HTML CSS

Knockout

ACHIEVEMENTS



LANGUAGES

English

- Trained new team members.
- Proposed architectural solutions for serverless AWS and Azure microservices.
- Designed and implemented serverless architecture on AWS and Azure (Azure Functions, Azure API Management
- Migrated from serverless to microservices with Azure AKS.
- Implemented and supervised the implementation of several connectors for Google, Twitter, Facebook, Postgresql, etc..
- Created code structure and templates according to best practices.
- Developed a strategy to migrate from AWS to Azure.
- Documented application architecture.

Python Flask Django Apache Airflow AWS S3 DynamoDB SQS AWS Lambda EKS Azure AKS Azure Functions Azure API Management Azure Event Hub Azure Blob Storage Azure Key Vault

Product Architect

SDL

01/2016 - 04/2018

Achievements/Tasks

- Designed the integration of new services.
- Improved availability from 95 to 99.
- Implemented monitoring using ELK stack.
- Automated release process and increased test coverage with 20% on unit tests and 50% on e2e tests.
- Provided support to migrate from on-prem to AWS.
- Split the monolith and worked to containerize the application using Docker/ Kubernetes - developed demo projects based on Spring Boot/Kafka/ Elasticsearch /Redis, etc.
- Collaborated closely with different stakeholders from PM, PO, Dev Manager, DEV QA to OPS and Professional Support.

Java Spring Spring Boot Docker Kubernetes AWS Elastic Beanstalk Jenkins Maven SQL Server Oracle Knockout

Technical Lead

SDL

01/2014 - 01/2016

Achievements/Tasks

- Designed and implemented REST APIs from scratch.
- Worked closely on the integration and adoption of Spring stack: DI, REST, MVC, AOP, JPA (Hibernate).
- Lead the adoption of QueryDSL and migrated from Java 6 to Java 8, from Tomcat 7 to Tomcat 8.
- Fixed critical outages and performance issues.
- Provided continuous support for OPS, DEV and Professional Services and outstanding technical support to clients.

Java Spring SQL Server Oracle JSP

Software Developer

SDL

01/2013 - 01/2014

Achievements/Tasks

- Worked on world leading translation software. The application offered both translation and translation projects management capabilities, being used by top companies over the world.
- Implemented new features.
- Provided maintenance on a large Enterprise product.
- Introduced new libraries.
- Started working on application refresh.

Full Profesional Proficiency

Romanian

Native

PERSONAL PROJECTS

Billy (04/2022 - Present)

Github Repo

- Created an application for expenses and bills analytics, which collects, processes and analyzesbank statements, providing a general view on your expenses. It generates reports that show how muchyou spend on food, travel, etc.
- Extracted data from pdf bank statements using tabula and pandas.
- Implemented low cost search engine based on pandas, caching data stored in S3.
- Created end to end CI/CD pipeline using CodePipeline and CodeBuild.
- Integrated Cognito for user authentication and authorization.
- Implemented event driven architecture with DynamoDB streams, SNS topics and SQS queues.
- Implemented serverless architecture using Lambdas and SAM.
- Implemented DynamoDB single table design.
- Deployed React frontend on S3, CloudFront and Route53

Serverless Python AWS Lambda SAM SNS SQS S3 DynamoDB CloudFront Cognito API Gateway Route53 CodePipeline CodeBuild Secrets Manager Parameter Store Pandas Tabula React Material UI

Django PDF (10/2022 - Present)

Github Repo

- Generated user data using faker and saved it in CSV format in S3.
- Loaded CSV data into Redshift and created reports using Redshift and cached them in Redis.
- Generated PDF reports using weasyprint, selenium and reportlab.
- Created Django dashboard page.

Python Django WeasyPrint Selenium Reportlab Redis Redshift Postgres Bootstrap ChartsJS Seaborn Pandas CloudFormation

Django Scaling (10/2022 - Present)

Github Repo

- Created simple Django app with one page.
- Packaged Django app as Docker image. Used uWSGI with 4 workers.
- Deployed Django app in AWS ECS
- Load balanced requests using ALB and Route53 weighted routing for cross region load balancing.
- Ran 40k requests per second using distributed Locust tests.

Python Django Locust ECS ALB Route53 CloudFormation

Hodor (04/2022 - Present)

Github Repo

- Documented the application after KT and helped with the on boarding process for new comers.

Java Spring SQL Server Oracle JSP

Software Engineer

HP

10/2009 - 01/2013

Achievements/Tasks

- Developed and worked on dozens of integrations (Active Driectory , OpenStack , Exchange, Powershell , SCVMM , EC2 , VMWARE , etc.) in a product used to orchestrate datacenter operations. The integrations were developed in Java/C#.
- Migrated build from ANT to Maven.
- Developed key integrations.
- Fixed critical issues for major clients.

Java C#

EDUCATION

Computer Science

Technical University of Cluj-Napoca

09/2004 - 07/2009 Cluj-Napoca

Computer Science

Tiberiu Popovici High Scool

09/2000 - 07/2004 Cluj-Napoca

- Created an authentication and authorization service based on AuthLib to generate JWTs.
- Integrated Google authentication.

Python OAuthLib JWT Postgres Kubernetes Docker

My Resume (04/2022 - Present)

Github Repo

- Created a simple React app to expose my resume.
- Deployed React frontend on S3, CloudFront and Route53.

React Material UI AWS S3 CloudFront SAM Route53 Lambda Github Actions

Development Discipline Tools (06/2019 - 12/2021)

- Extracted complex data from salary review Excel files.
- Created reports and dashboards from salary review data.
- Extracted workforce planning data from internal tools.
- Created reports from workforce planning tool.
- Created development skills report.

Python Flask Pandas Seaborn Openpyxl

Lorem Ipsum (10/2009 - Present)

Github Repo

- Created an application used as a technical playground to prove architectural concepts.
- Implemented a simple text generator, useful to generate books and get some random content to be used elsewhere.
- Implemented hexagonal architecture in Python.
- Worked using best engineering practices including TDD, CI/CD, OAuth, etc.
- Implemented JWT authentication and authorization.
- Implemented a simple search engine to get stats from generated text. e.g. # of unique numbers.
- Deployed the app on local Kubernetes, AWS ECS and AWS EKS.
- Implemented frontend using React and Bootstrap.

Python Flask Postgres Kubernetes Istio Terraform Tekton ArgoCD AWS EKS ECS React Bootstrap Prometheus Grafana ElasticSearch Kibana