Adrian Dolha

Full-Stack Python and React Developer

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.

adriandolha.biz@gmail.com ✉

+40743389452 📱

Cluj-Napoca, Romania 📍

linkedin.com/in/adrian-dolha-562578b8 🔗

github.com/in/adriandolha 🔗

WORK EXPERIENCE

Full-Stack Python and React Developer
Boast

08/2023 - Present
Achievements/Tasks

- Led the ingestion and processing of time evidence from raw data sources such as GitHub and Jira, ensuring data accuracy and integrity.
- Implemented and managed ETL pipelines using **Fivetran** to automate data extraction and loading processes, significantly reducing manual effort and improving data availability.
- Designed and orchestrated complex workflows with **Apache Airflow**, enhancing the efficiency of data processing tasks and enabling timely insights for stakeholders.
- Collaborated with cross-functional teams to define data requirements and deliver actionable analytics, driving data-driven decision-making across the organization.
- Mentored junior data engineers, fostering a culture of continuous learning and improvement within the team.
- Spearheaded a substantial increase in unit test coverage and championed Test-Driven Development (TDD), ensuring robust and reliable code.
- Improved application performance through the implementation of a financial summary cache, enhancing user experience and responsiveness.
- Enhanced features and resolved issues in CSV data integration, streamlining data processing workflows.
- Introduced a cutting-edge tool for chat conversations over text and CSV data, utilizing OpenAI and Langchain technologies to enhance user interaction and data accessibility.
- Took charge of end-to-end development, encompassing both frontend and backend components.
- Collected key financial data for analytics and insights, contributing to informed business decisions.
- Contributed to SOC2 compliance through support on vulnerability and code scans, ensuring the highest standards of security in development processes.

Python · Typescript · Django · Vue · Flask · React · Tailwind · Flowbite · MySQL · MongoDB · GCP · GKE · Kubernetes · Docker · Github Actions · OpenAI · Langchain · Databricks · Fivetran · Apache Airflow

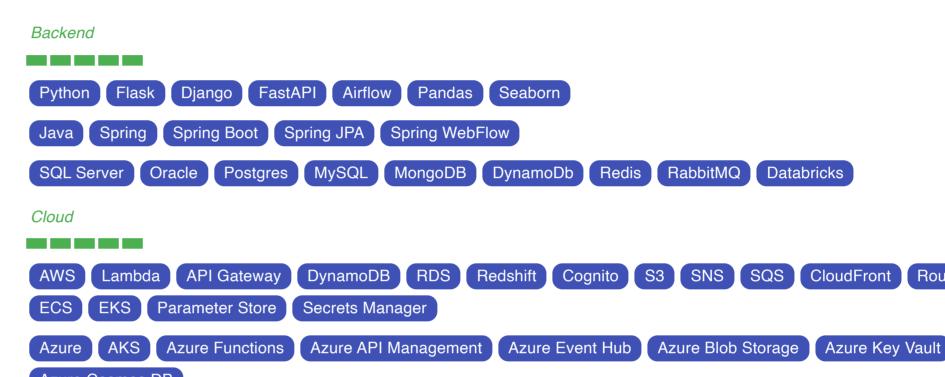### Full-Stack Python and React Developer
Renew

05/2023 - 08/2023
Achievements/Tasks

- Leveraged Generative AI techniques to create cutting-edge AI tools.
- Successfully trained the LoRA model using kohya-ss scripts, resulting in elevated model performance.
- Generated a diverse range of images from prompts using kohya-ss scripts.
- Utilized advanced models including RealVision2&4, DreamShaper7, SD 1.5, and SDXL to train characters, styles, objects, and text-to-image transformations.
- Took charge of end-to-end development, encompassing both frontend and backend components.
- Implemented robust user authentication mechanisms including email/password, Google authentication, and anonymous authentication using Firebase Authentication.
- Established real-time updates for training and generation tasks through Pub/Sub and Firebase Realtime Database integration, enhancing user engagement.
- Introduced a dynamic credits system and seamlessly integrated Stripe payments and subscriptions for smooth financial transactions.
- Ensured streamlined development workflows by implementing a comprehensive CI/CD pipeline using GitHub Actions.

Python · FastAPI · React · NextJS · Tailwind · Typescript · GCP · Cloud SQL · Cloud Run · Pub/Sub

SKILLS

Backend

Python · Flask · Django · FastAPI · Airflow · Pandas · Seaborn
Java · Spring · Spring Boot · Spring JPA · Spring WebFlow
SQL Server · Oracle · Postgres · MySQL · MongoDB · DynamoDb · Redis · RabbitMQ · Databricks

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
Google · GKE · Cloud Run · Cloud SQL · Pub/Sub · Cloud Scheduler · VM (DeepLearning, GPU) · Firebase Hosting
Firebase Authentication · Firebase Realtime Database

Devops

Jenkins · Terraform · Tekton · ArgoCD · AWS SAM · AWS CodePipeline · AWS CodeBuild · Kubernetes · Docker
Github Actions

Frontend

Typescript · React · NextJS · Redux · Material UI · Bootstrap · Ant Design · Tailwind · Flowbite

ACHIEVEMENTS

aws certified
Solutions Architect
ASSOCIATE

LANGUAGES

English
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 analyzes bank statements, providing a general view on your expenses. It generates reports that show how much you spend on food, travel, etc.
- Extracted data from pdf bank statements using tabula and pandas.

Full-Stack Python and React Developer
Freelance
05/2022 - 05/2023
Achievements/Tasks

- Parsed PDF invoices from phone repairmen and classified them using LLM OpenAI.
- 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.
- 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   Django   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
- Grew 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.
- 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.

- 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

- 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.

- 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`

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

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.
- 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