

# 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.



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## WORK EXPERIENCE

### Full-Stack Python and React Developer

#### Boast

08/2023 - Present

##### Achievements/Tasks

- 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

### 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  
Cloud Scheduler VM (DeepLearning, GPU) Firebase Hosting Firebase Authentication  
Firebase Realtime Database Stripe

## 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



## LANGUAGES

English

Full Profesional Proficiency

Romanian

Native

## Full-Stack Python and React Developer

### Freelance

05/2022 - 05/2023

#### 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   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
- 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.
- 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.

## 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

- 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.

- 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.
- 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

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