



Ramzi Tannous

Software Engineer

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Senior Software Engineer with experience across backend, full stack, mobile, and frontend development, including Python, Django, React, React Native, FastAPI, and AWS. The profile also shows work on AI agents, microservices, and data-related systems, which makes it better aligned to data engineering, Python development, and AI development roles.

SKILLS

React, Pydantic AI, FastAPI, GraphQL, Javascript, Flask, Typescript, Django, Django Rest Framework, HTML, CSS, Firebase, Mysql, Machine Learning, Git, Jira, Docker, AWS, Shell Script, Nodejs, Postgres, MongoDB, Data Engineering, Pyspark, Kafka, Nestjs, Micro Services, pytest, Redis

EDUCATION

Birzeit University

Aug 2014 - Jan 2018

Bachelor, Computer Engineering

EXPERIENCE

AUI

Sep 2025 - Present

Senior Backend Engineer

- Architect backend services that support product growth while maintaining reliability and high availability.
- Build AI agents and LLM-powered workflows that execute tools and connect to backend services and external APIs.
- Develop secure APIs with authentication, authorization, rate limiting, and observability.
- Build event-driven services for high-volume background processing and real-time workflows.
- Deploy solutions across AWS and GCP, choosing cloud services to fit workload requirements.
- Work with product and frontend teams to turn business requirements into scalable technical solutions.
- Developed backend services for AI-enabled automation and LLM workflows.
- Integrated AI agents and LLM workflows with backend systems.
- Selected cloud infrastructure for backend services and AI-enabled automation.
- Delivered reliability-focused backend systems for AI agent and LLM workflow execution.
- Build retrieval-augmented generation (RAG) pipelines.

Technologies: AWS, GCP, LLM-powered agents, backend APIs, event-driven services, Haystack, pgvector

Daloopa

Aug 2021 - Aug 2025

Full Stack Developer

- Built microservices and GraphQL and REST APIs using Python, Django, Graphene, and Django REST Framework.
- Developed background jobs with Celery and Redis.
- Integrated AWS Cognito to support single sign-on.
- Migrated databases and designed PostgreSQL schemas, including schema changes and data migration scripts and record validation to maintain data integrity.
- Built React components and pages for the company marketplace and internal projects.
- Wrote unit tests and translated project requirements into tracked development work.

Daloopa (continued)

- Built retrieval-augmented generation (RAG) pipelines with document ingestion, chunking, embeddings, and vector retrieval to provide relevant context for LLM responses.
- Developed LLM features with prompt design, backend API integration, and response validation to support application workflows and improve output reliability.

Technologies: Python, Django, React, GraphQL, Graphene, Django REST Framework, Redis, Celery, AWS, Datadog, RabbitMQ, Sentry, SQL, Postgres, Kubernetes, JavaScript, CSS, HTML

Secretsville*Jan 2021 – May 2023*

Mobile Developer

Worked as the main react native developer for the company's mobile app

- Implemented app from scratch
- Implemented multiple new screens based on Mockups
- Integrated with newly created APIs to handle new features functionality
- Fully Responsible for releasing to both App Store & Play Store
- Integrated with firebase notifications
- Implemented OTA update in the app
- Integrated with multiple community based React Native Libraries ex: navigations, notifications, axios client, Expo

Technologies: React Native, Android, IOS, Xcode, Android Studio, Javascript, Typescript, Java, Objective C, AppCenter, MixPanel, Firebase

Vinsent*Apr 2020 – Apr 2021*

Mobile Developer

Worked as a mobile developer to add multiple features to an existing E-Commerce mobile app

- Analyzed business requirements
- Implemented multiple new screens based on Mockups
- Integrated with comecero (E-Commerce platform) to handle payment & orders
- Used RavenCoin (blockchain technology) for cryptocurrency payment & transactions
- Integrated with newly created APIs to handle new features functionality
- Fully Responsible for releasing to both App Store & Play Store
- Integrated with firebase notifications
- Implemented OTA update in the app

Technologies: React Native, Android, IOS, Xcode, Android Studio, Javascript, Java, Objective C, AppCenter, MixPanel, Firebase

TwistBioscience*Jan 2020 – Jul 2020*

Backend Engineer

Worked on the main ECommerce backend server, to implement and test Rest APIs.

- Designing and Implementing Restful APIs for new features.
- Implemented Payment APIs using Stripe
- Designed & developed a shipment tracking component that allows tracking shipments on daily basis, throughout FedEx and other carriers.
- Integrated with SAP (ERP system) to be used for invoices & shipments
- Database Development using Postgres, salesforce.
- Implemented Unit and Integration Tests for developed APIs

Technologies: Python, Django, Django Rest Framework, Pytest, Stripe, Celery, Redis, Sentry, S3 Storage, Postgres, Salesforce, Django Channels

TwistBioscience

Jun 2019 - Jan 2020

Full Stack Engineer

Worked as Full Stack Engineer to Designed and Implement a service with UI & Rest APIs that is used internally in TwistBioscience labs, used to calculate various DNA related algorithms (ex. Hairpin).

- implemented UI pages based on mockups.
- Implemented various Rest APIs to calculate DNA related algorithms.
- Created and Implemented API test cases for testing purposes.
- Prepared service to be deployed on Kubernetes cluster using docker.
- Worked with devops teams to deploy the service

Technologies: Python, Nodejs, Rust, Django, Django Rest Framework, Javascript, CSS, HTML, Linux, Docker, Nginx, Shell Script, Github, Jira

TwistBioscience

Jan 2019 - May 2019

FullStack Developer

Worked as Project owner for the Multicurrency & Distributors project in the main E-commerce website of the company, worked as Full Stack Engineer to implement new features of the project

- Analyzing Requirements and adding needed feedbacks
- Create Jira Tickets based on Requirements, and assigning them
- Implementing new Rest APIs for new features & flows
- Implementing UI for new screens & flows
- Implementing unit & pact tests for the new APIs
- Integrating with another backend & implementing APIs to use that integration
- Fully Responsible for Data Migration and deploying to production
- Database development using SQL

Technologies: React, Redux, CSS, React Testing Library, Jest, Python, Django Rest Framework, Stripe, Redis, Sentry, S3 Storage, MongoDB, Salesforce, Postgres, Django Channels

Toffy (Internal Startup)

Jan 2018 - Jan 2019

Frontend Engineer

Worked as the only Frontend developer on the internal company's project that was part of a HR project.

- Created Web Pages and UI components Based on mockups
- Consumed and integrated with Restful APIs
- Tested Web UI components using Cypress.
- Implemented features based on requirements.
- Created maintainable components & libraries

Technologies: Typescript, Javascript, React, React Testing Library, React Router, Redux, HTML, CSS, Git, Cypress, Jira