

Karim Tayie

SOFTWARE ENGINEER

El-Mohandseen, Giza, Egypt

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Summary

Self-taught Software Engineer, currently working at Tarjama with 3+ years of expertise in backend web development and OWASP security principles. Versatile software developer with a strong computer science foundation, adept at independent problem-solving. Eager learner, committed to mastering new technologies for effective problem-solving.

Skills

Back-end	Django, NodeJS, Express, REST API
Front-end	Angular, Ngrx, HTML5, SASS, Gulp
Programming	JavaScript, Python, JAVA, C++
Software Engineering	OOP, Design patterns, Algorithms and data structures, Database design
Languages	Arabic, English, Italian

Work Experience

Tarjama

Cairo, Egypt

SOFTWARE ENGINEER (BACK END)

Jan. 2021 - Present

- project link: <https://ureed.com/>
- Developed new features using Django and fast API while optimizing for scalability and adhering to coding best practices.
- Deployed code to production environments, ensuring smooth releases and minimal downtime for users, in collaboration with the DevOps team.
- Collaborated with the QA team to identify and fix bugs, and conducted thorough unit testing to catch issues early in the development process.
- Integrated with other systems using APIs and third-party libraries, ensuring seamless data integration and compatibility with existing systems.
- Collaborated with product, QA, and DevOps teams to deliver high-quality features on time, while ensuring that all code met stakeholder needs. Regular communication and feedback were critical to success.
- Back End: Django-Rest - Django-admin - PostgreSQL - unit testing - Celery - Elasticsearch - TypeScript
- DevOps: Git - Linux - CI/CD - docker - sentry

XPay

Cairo, Egypt

SOFTWARE ENGINEER (FULL STACK)

Dec. 2019 - Dec. 2020

- project link: <https://xpay.app/>
- Developed full-stack web applications, coding at all levels from the database management (SQL) to the front-end (Angular).
- Created database schemas and wrote efficient retrieval queries in PostgreSQL for various business requirements.
- Created unit-tested endpoints for the RESTful API that serves the front-end.
- Developed a framework on top of django admin to easily generate statistics components to show in the dashboard.
- Worked on refactoring the front end app and reduced its size by 30%.
- Front End: Angular - SASS - Bootstrap - Gulp - jQuery - unit-testing - e2e-testing
- Back End: Django-Rest - Django-admin - postgresql - unit testing
- DevOps: Git - Linux - CI/CD - docker - sentry

Tyro

Cairo, Egypt

SOFTWARE ENGINEER (FRONT END)

May. 2019 - Dec. 2019

- project link: <https://nafhambytyro.com/>
- Worked on migrating the current main angular.js app to the newest version of Angular.
- Redesigned and dramatically simplified many user interfaces.
- Developed a scheduling calendar feature on top of angular-calendar.
- Automated company-wide reports of users activities saving hours of labor from operation team.
- Front End: Angular - Angular.js - SASS - Bootstrap - Gulp
- DevOps: Git - Linux - docker - sentry

PayME

Cairo, Egypt

SOFTWARE ENGINEER (FULL STACK)

Dec. 2018 - May. 2019

- project link: <https://www.easykash.net/>
- Implemented the overall logic of a multi tenant fin-tech web application.
- Developed overall web application UI using material design.
- Developed back-end integrations with different payment gateways.
- Front End: Angular - SASS - Bootstrap - Webpack - material
- Back End: NodeJS - sailsJS - MySql
- DevOps: Git - Linux - pm2

Internships

PayME

FULL STACK DEVELOPER

Cairo, Egypt

Sep. 2018 - Dec. 2018

- Worked with the development team on maintaining current running web applications and fixing bugs.
- Worked with the development team on redesigning multiple web pages.

Media Touch

FRONT END DEVELOPER

Cairo, Egypt

Aug. 2017 - Dec. 2017

- Using markup languages like HTML to create user-friendly web pages.
- Maintaining and improving website.

Projects

Back-end REST API for a recipe management app (Django)

BACK-END DEVELOPMENT

- User registration & Authentication
- Managing tags, ingredients, recipes
- Uploading images
- github link: <https://github.com/KarimTayie/recipe-app-api>

Back-end REST API for a wall post app (Django)

BACK-END DEVELOPMENT

- Registration / Login: Anonymous users can create a new user and this new user receives a welcome email. New users can then log in.
- Wall (authenticated): After logging in, a user can post messages on the site-wide wall, similar to a Facebook wall except there is only one wall for the entire site.
- Wall (guest): Guests as well as authenticated users can see all of the messages on the wall.
- github link: <https://github.com/KarimTayie/wall-app>

Back-end server-side template Marketplace app (Django)

BACK-END DEVELOPMENT

- User registration & Authentication
- Browse Items
- Viewing Listed Related Items
- Communicating with other sellers via chat
- S3 service like integration
- Poetry for dependency management
- github link: <https://github.com/KarimTayie/puddle>
- project link: <https://puddle-karimtayie.vercel.app/>

Open Source Contributions

Angular Calendar (Angular)

FRONT-END DEVELOPMENT

- Added a responsive week view demo for angular calendar demo page.
- github link: <https://github.com/mattlewis92/angular-calendar/pull/1107>

Angular Archwizard (Angular)

FRONT-END DEVELOPMENT

- Added a new navbar with direction dropdown ('left-to-right' and 'right-to-left') plus github button for the angular archwizard repo.
- github link: <https://github.com/madoar/angular-archwizard-demo/pull/69>
- Added RTL support for the library.
- github link: <https://github.com/madoar/angular-archwizard/pull/286>

Zulip server - powerful open source team chat (Django)

BACK-END DEVELOPMENT

- Extended test get accounts for email unit test.
- github link: <https://github.com/zulip/zulip/pull/15434>

Education

Cairo University

B.S. IN BUSINESS ADMINISTRATION

Cairo, Egypt

Sep. 2014 - Jun. 2018

- Ranked 2nd in third year class.
- GPA: 3.7/4