Ahmed Shahwan

Back End Developer

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Tagline:

Back End Developer and open-source enthusiast who's passionate about the software industry and loves coding in Python.

Major Skills: *Back End Engineering, Python, Django, Django-Rest-Framework, REST APIs*

Other Skills:

- **As needed / daily use**: Linux, Git, HTML, CSS, JavaScript... and others

- **Can keep up with**: Linux System Administration, Docker, Node.js, Vue.js, SCSS, TypeScript, Flask, Selenium, Redis, Celery, Bootstrap, Bulma, TailwindCSS, JQuery... and others

- **Tried before / willing to work with**: Angular, React.js, SQL, MySQL/MariaDB, PostgreSQL, Shell Scripting, Java... and others

Experience:

May 2020 - present: Freelance Back End Developer

I'm currently doing, besides my full-time job, second limited-time jobs by project, or part-time as a Python/Django backend developer to enhance my income and skills.

- **Projects:**

  1. ClickUp Tasks Board (MiSK)
     Description: A help desk system (front end to ClickUp) to be easy for non-tech users. A user submits a request (task), this request is automatically sent to ClickUp and saved locally.
     Techie ppl can see user requests on ClickUp and handle them. The updates are sent to a webhook on the system and a user can see the progress of his request.

URL: http://ctb.shahwan.me/

SRC: drive_link

Skills/Tech: Python, Django, API Integration, NGINX, Ubuntu VPS, Bootstrap RTL, JQuery (AJAX Requests)

2. iCare
Similar to the previous one with more features and REST APIs for a mobile app.

July 2019 - present: Back End Developer @ XPay

XPay is a startup company in the Fin-tech field that provides online payment solutions and innovates the concept of cashless communities. I developed almost 50%+ of their backend services using Python, Django, and the Django-Rest-Framework.

I skyrocketed here, considering my actual experience I was promoted to a Mid-Level position after proving myself worthy in the probation period.

- **Skills/Concepts that I earned/enhanced:** Teamwork, Software Lifecycle, Automated tests / Unit tests, Agile methodology, Sprints, Scrum Points, Lean project management / Lean Startup / Lean Software Development, CI / CD, The Twelve-Factor App, some Fin-tech concepts, and related topics, Payment Gateways, Virtual Wallets, Software Integration, Webhooks, and others…
    - *We recently had a pen-testing report from the UNO IT Solutions company, that indicates no critical bug in our system! I have participated in almost 50%+ of our system's backends and I'm proud to have that security mindset.*

- **Tools/Technologies that I learned/used:** Jira, ClickUp, GitHub, GitLab, BitBucket, CircleCI, AWS Elastic Beanstalk, Docker, docker-compose, Vue.js, and others…

- **Projects:**
    1. NDA, July 2019 - present
    Description: A Payment Gateway wrapper.

    Responsibilities: I was the main developer of the project for around 6 months, then other team members contributed once in a while, but I still have the largest contribution.

We created this standalone project to process payments, and unify the way (APIs) through which we handle payments internally, especially in case if we want to support multiple payment processors or different payment gateways (future proof system).

Skills/Tech: Django, DRF, REST APIs, Cookiecutter Django, Unit Tests, Mocking & stubbing, Django-Factoryboy, CircleCI, AWS EBS, others

2. NDA, July 2019 - Sept 2019
   Description: A payment iframe to be embedded in the client's website to process payments using cards.

   Responsibilities: I was the main developer of this project, too. It was meant to be a demo for our biggest client then it was used in production until it was re-rewritten by a colleague front-end developer.

   Skills/Tech: Vue.js, SPA

3. NDA, Aug 2019 - present
   Description: The biggest project. It contains business logic that handles our clients' requirements/integration and serves the company's business model directly.

   Responsibilities: I take an almost equal part of developing this project. I mostly took care of the payment endpoints.

   I developed Promo Codes, Virtual Wallet, Payment with wallet + other payment options at the same time, Different Payment types to be paid, Refactoring needed before developing some features, and others.

   I took part in database design decisions and how to implement new features or leverage what we have in the best way possible.

   Skills/Tech: Django, DRF, REST APIs, Cookiecutter Django, Unit Tests, Mocking & stubbing, Django-Factoryboy, CircleCI, AWS EBS, others

May 2019: Open Source Contributor

I care so much about open source projects since they are the backbone of what I use regularly (GNU/Linux, Python, Django, and many more) and constantly feel the urge to take part in this marvelous movement. So, I contributed to Django-localflavor, MasoniteFramework, and on the road to make more contributions.

March 2018 - Nov 2018: Freelance Software Developer
    I have worked with ProgaX, a team of freelancers. I mainly worked on the frontend part of the projects we developed.

-   **Projects:**
    1. pizo-eg, April - July 2018
        Description: A median between dentists and medical engineers to help the dentists fix their equipment, plus a marketplace for dental equipment.

        Responsibilities: I was responsible for developing the website's front-end. I created the dashboard and a catalog that represents the products in the marketplace.

        Skills/Tech: HTML, CSS, JavaScript, Vue.js, CoreUI–Vue

    2. mairs-eg, July - Nov 2018
        Description: A median between doctors, patients, and pharmacists. A doctor creates a user for patients using ID numbers, then the user is registered and his/her medical history on the system begins. The patient goes to the pharmacist to get the prescription and told when to take the medicine plus some other functions that help to ease this process.

        Responsibilities: I was responsible for developing the website's front-end. Which consisted of 3 parts, Doctor's portal, Patient page, Pharmacist page, and a messaging platform.

        Skills/Tech: HTML, CSS, JavaScript, Materialize CSS

Late 2013 - present: Programming/Linux/Open-source Hobbyist and Freelancer
    I was and still passionately learning about every and anything related to Linux (and UNIX) administration, open-source, programming, software technologies, and computer science, and made many hobby projects using different technologies that helped deepen my knowledge and understanding of many programming concepts.

    Through my learning process, I tried many different software technologies like Visual Basic, VB.NET, C, C++ (OOP), Java (OOP), Android (Using Java), HTML, CSS, JavaScript, Bootstrap 3,4, JQuery, PHP, WordPress, Laravel, Node.js, ExpressJS, MongoDB, GNU/Linux (many different distros), Vagrant, VMWare Workstation, VirtualBox, Hyper-V, Windows Administration, Linux's CLI, Docker, Podman, Python, Django, Flask, Selenium, SQLAlchemy, Peewee, Git, and more…

    I started learning Python in 2015, then started learning Flask, Django(1.8), and other Python-related topics. I continued learning other technologies then

came back to Python again, then went back to another tech, then Python, and so on.

I did many side projects/scripts to practice what I was learning. Although the Projects weren't a big deal in terms of value, practicing them or whatever I was learning over the years helped me very much in my current commercial job to make progress and grow very fast.

- **Projects (what I remember/worth mentioning):**
  1. Wauto, Oct 2018
     Description: A script that automates sending many messages to a large number of people on WhatsApp

     Skills/Tech: HTML, CSS, JavaScript, Python, Selenium web driver

  2. tearobot, Jan - Jun 2019
     Description: A toy telegram-bot built using Python. Meant for educational purposes.

     Responsibilities: It was a college project. I was the leader of the team. I helped them learn how to work in a team and collaborate using Git and GitHub. I also helped them learn more about Python, Virtual environments, Environment Variables and how to use/set them in Linux's shell, understand relational databases, and the difference between DB and DBMS, how to solve problems, handle users and user sessions through DB relations and showed them a glimpse of unit tests.

     SRC: GitHub_Link

     Skills/Tech: Python, Virtualenv, Pipenv, relational databases, RDB design, database migrations, SQLite, Git, GitHub, Unit tests, teamwork, consuming APIs, Telegram APIs, Telegram Bots.

  3. Jan - March 2019
     I was learning Django v2.0 following the Django 2 by Example book, and I built a Blog, an E-Commerce, a Social Platform, and an Educational Platform

Native Language: Arabic

Foreign Languages:
    English: Understanding: *Advanced*
                  Speaking: *Upper-intermediate*

Education:

Self-study - Computer Science / Software Engineering - Late 2013 - present

      I'm continuously learning about software through reading books/articles and watching conferences/courses/videos. I studied many courses online from Lynda.com, LiveLessons, CBT-Nuggets, YouTube, Udemy, Udacity, Coursera, edX, and many other various computer science-related books and resources.

Zagazig Uni - B. Eng. CSE - 2012 - present

      I am currently studying Computer and Systems Engineering. I learned about computer science concepts and software engineering fundamentals. I studied programming concepts using C, Object-Oriented using C++. I also got classes in Algorithms, Data Structures, Computer Organization, and Operating System concepts.