

[Paulo Antunes]

[Senior Software Engineer]

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>> Summary <<

Software Engineer with 21 years of experience, building software from the ground-up mainly with Python, Objective-C, Swift, PHP, and C++.

Big fan of Django, Django Rest Framework and Postgres to produce solid RESTful APIs.

Staying up to date and very keen to learn about new technologies - Currently exploring Rust and Vyper. For an overview, see my [web page](#).

>> Experience <<

Senior Backend Developer

Bits of Stock | Amsterdam, The Netherlands | Remote

June 2022 - Present

- * Developed an Authentication/Authorization RESTful API web service from scratch, based on asymmetric JWT signing and Custom Header Token, which is the central point of user/session validation by all other internal web services. Through django-admin it is possible to manage user and session data.

- * Developed an Authentication/Authorization client Python Package, that uses the latter web service, to be installed by internal client web services. The clients are agnostic and just need to set the necessary authentication class(es) per View.

- * Developed from scratch, a RESTful API web service and Event-Driven producers and consumers that validate and process inbound messages, using configurations, logic and filters that are managed from django-admin. Approved messages will be dispatched to the defined RabbitMQ queues.

- * Developed an Event-Driven Alerts service with a consumer and producer. The consumer listens to the defined RabbitMQ queues, filtering the wanted inbound messages and building and dispatching the Alert payload to the configured queues. This service is fully managed through django-admin.

- * Forked the public repository [cookiecutter-django](#) and added improvements for the internal needs, such as: adding new Python Packages, adding Poetry instead of Pip, adjusting Docker and docker compose files and removing not needed functionality.

- * Tech Lead and taking full responsibility on the described services/technical achievements in terms of maintenance, expansion and mentoring.

- * Collaborate with the Development Team for emergency patches, bug fixes, including platform performance boost.
- * Created so far 740 unit, functional and API test cases as part of CI/CD, having an average of 98% of code coverage, in the described technical achievements.
- * Used Python, Django, Django Rest Framework, Postgres, RabbitMQ, Docker, docker compose, Github, Microservices, REST, Event-driven, Swagger, Redoc, AWS.

For a complete overview, see [LinkedIn](#).

>> Professional Development Projects <<

- August 2023, Created and deployed [ERC-20 Tokens](#)/smart contracts in Ethereum protocol.
- June 2023, Developed [Exchange Radar](#), showing real-time crypto exchange order matching.
- January 2021, Developed a real-time [LTO Network Explorer](#), including Telegram Bot.
- November 2018, Developed the Open-source platform [XTCryptoSignals](#).
- October 2012, Co-founded [Party with a Local](#) and developed its [iPhone app](#).
- May 2011, Developed a native iOS iPhone/iPad game [Tic-Tac-Toe Notepad](#).

>> Education <<

[University of Algarve](#) | Faro, Portugal

1996 - 2003, Licentiate in Computer Science

>> Skills <<

- * Python
- * Objective-C and Swift
- * Frameworks (Django, Django Rest Framework, FastAPI, Starlette, Flask)
- * Databases (Postgres, MongoDB, MySQL)
- * Background Task Processing and Brokers (Celery, RabbitMQ, Redis Queue, Dramatiq)
- * Multiprocessing, Threading and asyncio
- * Socket.IO and websockets
- * Unit / Functional / API Testing
- * Git, CI/CD, Docker, docker compose

>> Interests <<

- * Traveling
- * Football, Snowboard
- * Bitcoin, Cryptocurrencies, Blockchain
- * Craft Beer