

Andrei-George Hondrari

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Work experience

Study

November 2020 - Present

I took a break to refine my skills, read books, experiment and to catch-up with the latest technologies overall.

Backend Software Engineer

Offensive Security (www.offensive-security.com) – February 2020 to November 2020

Focused solely on the backend part of the new OffSec portal as a core Python/Django developer.
(<https://www.offensive-security.com/labs/individual/>)

Responsibilities included:

- establishing a common ground with the product owner and translating business needs into technical specifications
- establishing project architecture and database structure
- software development, code review and software improvement/refactoring
- establishing and improving development process
- optimising performance by assessing through benchmarking and eventually caching and refactoring strategically
- support other developers with expertise in software development, Django and Django REST framework
- work with other teams, essential to the platform, establishing a clear contract of interaction in terms of endpoints, payloads and data transactions
- interviewing new candidates for the role of backend software engineer
- assessing risk and providing mitigation plans against potential failures
- mitigation of failure by on-call duty
- assessing platform errors and generating various reports for assessing failure

Technologies involved: Django 3.x, Django REST Framework, Redis, Docker, Docker compose, RabbitMQ, Celery, MySQL, Redis cache, Locust, Apache Benchmark, Pingdom, Sendgrid, Pytest, AWS S3, Django filter, ASGI, Django channels, Django storages, OAuth.

Full-Stack Software Engineer

Offensive Security (www.offensive-security.com) – September 2019 to February 2020

Acted as core developer, both frontend and backend, involved in the kickstart of a new portal:

- <https://www.offensive-security.com/labs/individual/>
- specifically - <https://portal.offensive-security.com/sign-up/community>

The portal aims to provide easy access to vulnerable virtual machines, enabling penetration testers to have a seamless experience when it comes to testing their hacking skills.

Technologies involved: VueJS, Vuex, Axios, SCSS, Django 2.7, Django REST Framework, Docker, Docker compose, Python 3, MySQL, Pytest, OAuth.

Full-Stack Software Engineer

andreihondrari.com – December 2016 to September 2019

Projects I've worked on:

- <http://vieco.de> – single-handedly implemented and deployed this web platform. The platform consists of: ecommerce, blog, custom CMS, localization, internationalization, analytics, B2B, SEO, Google Analytics integration, Google maps integration, file management and customer data import
- <https://vieco.de/en/eve/rimini> – 2D image blending product configurator
- **Trimachine** – a prototype platform for searching industrial lathing, soldering and milling machines
- <http://jogicorner.com> – animated presentation website showcasing paintings
- <https://vimovision.andreihondrari.com/> – presentation website for a German digital agency
- <https://kaeslatsch.de> – presentation website for a German architecture company

Technical Leader

Jibe Company – Cluj-Napoca, Cluj – July 2016 to December 2016

Handled a variable team that worked on a web service/web platform project while also contributing as a developer and code quality reviewer. I also had to mentor a couple of new employees.

Software Engineer

Jibe Company – Software Engineer – February 2016 to July 2016

Worked with .NET custom-build libraries to create hardware test cases by triggering hardware events and sniffing data of a custom-build hardware bus for those events, in order to determine failure/success of the hardware inputs/outputs.

Developed a port from a C# service to a Python/Django based web service. The project involved creating a web platform that would provide B2B users with an interface for accessing their manufacturer specific data from hardware devices deployed by them to their active customers. I also had to implement parts of a REST API that would be used by these users for alternative third party applications. The web service implementation was also about synchronising with a legacy web service written in C# and .NET. Mentoring, code reviewing, client relations and risk assessment duties were part of the job.

Internship Tutor

Jibe Company – Cluj-Napoca, Cluj – May 2016 to June 2016

I have coached interns by helping them understand the workflow of a project, the way to properly use tools for version control and project management, as well as how to use proper techniques and to make proper decisions in software development.

Hardware Software Engineer

Jibe Company – Cluj-Napoca, Cluj – October 2015 to February 2016

I've used .NET client made libraries to interact with the client's custom hardware, to develop a plugin based test environment. I've also interacted with a robotic arm via serial communication and used Raspberry Pi to gather various sensor inputs from the test environment.

I've also helped ensemble and test some electronic sensors. Other technologies used in this project were NFC and custom communication protocols.

Full-Stack Software Engineer

Jibe Company – Cluj-Napoca, Cluj – January 2014 to September 2015

Worked with teams that developed several websites. Used technologies such as Django, Redis, jQuery, Lodash, Momentjs, Bootstrap CSS, Docdata payment system and AngularJS.

Software Developer

Fortech SRL – Cluj-Napoca, Cluj – November 2012 to January 2014

I have worked with several technologies such as Qt, RESTful services, HTML/CSS/JavaScript plugins via WebKit, SQLite via a specialized database API, bluetooth communications and I've also performed application skinning.

Education

Bachelor in Systems Engineering and Applied Informatics

Technical University of Cluj-Napoca - Cluj-Napoca, Cluj October 2010 to July 2014

Skills

Python, Django, Django REST Framework, Celery, Redis, RabbitMQ, JavaScript, VueJS, Linux, Git, SQL, MySQL, Postgresql, Caching, Benchmarking, Unit testing, Continuous Integration, Continuous development, Team Leading, Client Relations, AWS, REST, C++, TypeScript, CSS, CSS3, SCSS, HTML, HTML5, jQuery, AngularJS, Qt, SEO, Object Oriented Programming, Hardware

Related experience

I have extensive knowledge regarding the advanced Python features including latest Python 3.x features. This claim is backed up by my activity on **StackOverflow** (<https://stackoverflow.com/users/858565/andreihondrari>) where I currently hold a score of 5k+ and several badges, including a bronze Python badge, all obtained by answering questions on the topics of Python and Django. Additionally to this, I have a selection of some code samples and answers from Stackoverflow covering a variety of topics, all listed here:

<https://gist.github.com/AndreiHondrari/2f63bfc8d57dc01e26f43e51506f1465>