




Younes Moustaghfir

Curriculum Vitæ

Experience

- May 2024–Present **Head of Operations, Syntho, Amsterdam, 40 hours per week.**
Ultimate responsibility for all IT-related operations within Syntho, combining project planning and execution. I am still responsible for deploying our software in our clients' environments and providing support during their platform deployment. Increased focus on setting up projects within the Operations team at Syntho, focusing on support for developers and clients, and scaling DevOps/Operations efforts within Syntho. At the start of this role, I oversaw, planned and executed a migration from Azure DevOps to GitHub, including the transfer of all CI/CD pipelines and repositories to GitHub Actions. Engineering tasks including DevOps features (CI/CD pipelines, Cloud infrastructure, automation), Backend Engineering, Monitoring and Deployments (Kubernetes), and Code Reviews.
Skills: Kubernetes, Helm, Python, Azure, GCP, DevOps, ArgoCD, Backend Engineering, Cloud (Azure, GCP, OVH), Terraform, Pulumi, Rust, Go, Project Management
- August 2022–May 2024 **Head of DevOps Services, Syntho, Amsterdam, 40 hours per week.**
Progressed from Software Engineering/Machine Learning Engineer to being responsible for DevOps practices within Syntho. This included cloud infrastructure, CI/CD, development process tooling, and establishing the general development process within Syntho. Additionally responsible for deploying our software to clients. The product was a self-hosted solution, where we provided support to clients for Docker Compose deployments and Kubernetes deployments. Responsible for setting up the process and developing configuration files (Docker Compose & Helm chart). Development-related tasks including code reviews and occasional feature development in Python.
Skills: Kubernetes, Helm, Python, Azure, GCP, DevOps, ArgoCD, Backend Engineering, Cloud (Azure, GCP, OVH), Terraform, Pulumi, Rust, Go, Project Management, Distributed Computing

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•  younesmous@gmail.com •  younesmous.me
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- August **Machine Learning Engineer, Syntho, Amsterdam, 40 hours per week.**
- 2021–May 2023 First employee of then-startup Syntho, starting as Machine Learning Engineer due to academic experience with synthetic data generation. Syntho provides a platform for generating synthetic data for enterprise clients. The role was diverse as I was the first actual employee, focusing on developing Syntho's platform. Various responsibilities included Software Engineer, Machine Learning Engineer, making architectural decisions, and distributed computing related to Machine Learning workloads focused on CPU optimization. The tech stack primarily used Python and Next.js. Training and onboarding new engineers was also a supplementary task. Additionally, I was responsible for application deployment (Cloud Infrastructure, Docker, Docker Compose, and Kubernetes), which eventually led to my next role where this became my full responsibility (Head of DevOps Services).
- Skills: Python, ML (scikit-learn, PyTorch), Startup environment, Synthetic data generation, Databases (MySQL, PostgreSQL, MSSQL), Filesystems (S3, GCP buckets, Azure Blob storage), Data processing using NumPy, Distributed computing with Ray (Python package), Backend Engineering (FastAPI and Django), Terraform, Pulumi**
- February 2020–July 2021 **Working student - Business Information Analyst, Aegon Netherlands, Leeuwarden/Den Haag, 24 hours per week.**
- After the internship period, I continued at Aegon as a working student. I worked on the same projects as during my internship, ODH (a SQL Server-based Data Warehouse for standardized reporting) and FPL (Finance Publication Layer, the project for Aegon-wide data lake setup for mortgage data). As an Information Analyst, I contributed to setting up requirements for changes or new features, testing changes and features, and being actively involved in the change process. New responsibilities compared to my internship:
- Implementation lead / scrum master responsibility within the ODH project. In this role, I was responsible for setting up daily stand-up meetings between ODH project team members, structuring Epics / Features / User Stories / Tasks within the project according to Agile methodology, and reporting on activities during sprint review meetings for stakeholders (mainly colleagues and my manager).
 - Knowledge sharing: discussing relational databases and Excel Power Query with analysts, teaching and creating a knowledge community within the team regarding SQL, Power Query, and Power BI, as all analysts regularly used information from our relational database.
 - Additionally, I developed a generative model for creating synthetic test data based on a production dataset. I also wrote my master's thesis at Aegon, titled: "Generating financial mortgage-related synthetic data for application testing purposes by using generative adversarial networks."
- September 2019– January 2020 **Business Information Analyst Intern, Aegon Netherlands, Leeuwarden/Den Haag, 32 hours per week.**
- As an Information Analyst within the Investment & Portfolio Analytics (IPA) department, I primarily focused on 2 projects: setting up a Data Warehouse with an automated reporting layer and assisting in setting up a Data Lake specifically for mortgage data. Both projects involved mortgage data within Aegon. As an Information Analyst, I was the liaison between data users (mortgage specialists, investors, other departments, etc.) and developers.
- May 2016–January 2020 **Developer-System Administrator-Project manager, Piercing Mania, Groningen, 9-16 hours per week.**
- Overview of different roles held within Piercing Mania:
- 2016 - 2017: Product management and customer service
 - 2017 - 2020: Responsible for on-site server
 - 2017 - 2020: Part-time developer in Python/PHP for internal tools
 - 2018 - 2020: Part-time project manager for IT projects

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📱 • ✉ younesmous@gmail.com • 🌐 younesmous.me
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- 2012–2016 **Cashier**, *DekaMarkt*, Apeldoorn.
High school side job as cashier at local supermarket.
- 2011–2012 **Crew Employee**, *McDonalds*, Apeldoorn.
High school side job.

Education

- 2020–2021 **Information Studies: Data Science**, *University of Amsterdam*, Amsterdam, *Msc.*
Scriptietitel: Generating financial mortgage-related synthetic data for application testing purposes by using generative adversarial networks
- 2016–2020 **Informatiekunde**, *University of Groningen*, Groningen, *Bsc.*
Scriptietitel: Aspect-Based sentiment analysis: a comparison between a Bag-of-Words model and BERT on Dutch book reviews
- 2015–2016 **Artificial Intelligence**, *University of Groningen*, Groningen, *Bsc.*
- 2009–2015 **Gymnasium (VWO) - High school education**, *Gymnasium Apeldoorn*, Apeldoorn, *VWO*.

Extracurricular activities at University



Board and student representation

- August 2018–August 2019 **Member of Presidium and University Council**, *University Council of University of Groningen*, Groningen.
2019 University Council members represent the academic community. They form the highest democratically elected body in university governance. Each spring, twelve representatives are chosen from the students. The staff delegates twelve colleagues from their midst every two years. The twenty-four members together appoint a chairman, whether or not from among themselves, who represents the council for legal matters - including chairs of university participation (LOVUM) and national chairs. I was one of the student representatives on the council.
- August 2018–August 2019 **Party Leader**, *Lijst Calimero*, University Council Party - University of Groningen, Groningen.
2019 Responsible for parliamentary leader duties of the university council party Lijst Calimero. This included maintaining contact with all external parties related to Lijst Calimero and several faculties consisting of study associations and faculty councils. Also responsible for external relations regarding press matters.
- September 2017–September 2018 **Chairman of the board**, *Studievereniging ASCI*, Groningen.
2017–2018 Responsible for managing the board and study association for Information Science. Daily tasks included: meetings with board members, organizing activities, managing committees, setting up board meetings, and 3 General Member Meetings a year.

Committees

- 2015–2016 **Treasurer YearbookCee**, *Study Association Cover*, Groningen.
- 2015–2017 **Chairman Web Committee**, *G.S.W.V. Surface*, Groningen.
- 2016–2017 **Chair Almanak Committee**, *Studievereniging ASCI*, Groningen.
- 2017–2019 **Chairman Advisory Committee Mixfeest**, *Studievereniging ASCI*, Groningen.
- 2018–2020 **Member of Website Committee**, *Studievereniging ASCI*, Groningen.
- 2019–2020 **Member of Advisory Board**, *Studievereniging ASCI*, Groningen.

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 [Younes Moustaghfir](#)

Languages

Dutch Native
English Cambridge English: Advanced (CAE). C1 level.
French Beginner

Skills

General: Public speaking, Debating, Project Management, Agile & Scrum methodology, Leadership
Programming: PHP, Python, C, Java, Javascript, SQL, R, Rust, Go
Web-/Data-related HTML, CSS, NodeJS, Django, Flask, FastAPI, Lumen, Laravel, Databases(Postgres, SQL Server, MySQL), (Py)Spark, Hadoop, MapReduce, Airflow
Digital AWS, DigitalOcean, Azure, GCP, Azure DevOps, Azure Pipelines, Github Actions, Infrastructure Docker, Azure, Kubernetes
Data Analysis/Science Web scraping, Databases, Data Warehousing, Data Vault Architecture, Excel Power Query, Excel, PowerBI
Machine Learning Machine Learning for textual classification problems (NLP), Transformer models, VAE models, Generation of Synthetic data (Generative models) using GANs




Extracurricular Activities High School

Debate Team Member of the debate team from 2012 to 2015. Won multiple regional prizes.
Gymnasium
Apeldoorn

Hobby's

General Reading, Programming
Smart home applications Home automation of daily tasks. Running Home Assistant as part of homelab for this purpose.
Development @ home Especially at a young age and during holidays, I enjoy working on personal programming projects. These are mainly in the area of web applications and data collection. Additionally, I run a small homelab with Proxmox and several machines to experiment with technologies like Docker and Kubernetes.
HiFi General interest in music streaming and HiFi (High Fidelity) music.
Music As part of what was probably a COVID-related hobby (due to increased time at home), I also picked up a musical instrument (in this case, the piano).
Tinkerer/Maker Member of a Makerspace in Leiden and generally busy with DIY projects (electronics, woodworking, 3D printing)

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