

Jonas Claes

Software engineer
& Student

Jonas Claes, 21 years old

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Skills

I have a wide array of skills, from basic to advanced and I love to learn new things and put them to practice.

- Hardware
Electrical diagrams - Basic PCB design - Arduino - ESP32 - Raspberry Pi - NVIDIA Jetson Nano
- Software
Java - TypeScript - Python - Object-Oriented Programming
- Technologies
Docker - Podman - Kubernetes (K8s)
RESTful API - SOAP API
Elasticsearch - Kibana - Logstash - Filebeat - Heartbeat
MongoDB - MySQL - PostgreSQL - SQLite
- Strong problem solving skills
- Dutch - Native language
- English - Business English

Experience

Eurofins Digital Testing / Intern

February 2023 - June 2023, 3500 Hasselt, Belgium

During my time at Eurofins Digital Testing, I was an intern, developing a project for my internship. This project is the Operational Dashboard project, of which the main goal was to build a data analysis and visualization solution that made use of data from lots of different sources like Atlassian Jira, SonarCloud, Azure DevOps and several testing frameworks. For this project I made use of the Elastic Stack, together with several API's for gathering and transforming the data.

Neways Expanding Technologies / Test Engineer

July 2022 - September 2022, 5692 EA Son, The Netherlands

At Neways Expanding Technologies, I worked as a test engineer. That meant that I was responsible for the development and maintenance of test hardware and test software. I was also responsible for fixing any production interruptions and fault-finding in existing tests. At Neways I have worked on a Linux based testsuite making use of Python and improving the tester experience by making use of Google's OpenHTF and adding logging functionality.

my-student-id / Full stack developer and Co-Founder

June 2020 - May 2021, 3920 Lommel, Belgium

At this company I worked on an online learning platform for students, teachers and administrative workers as well as for businesses and individuals. I also managed the infrastructure and got to do some DevOps in the process.

Etec Systems / Software engineer, electrician and mechanic

July 2018 - 2021, 2490 Balen, Belgium

At this company I worked on a 3D palletizing software and I helped build machines. To do this, I read electrical diagrams and connect wires to the correct terminals. Afterwards I test every function of the machine, set up motion-controllers and program the PLC(s). I also built the coupling between machines.

Education

Thomas More University of Applied Sciences / Bachelor Applied Computer Science - Digital Innovation

2020 - 2023, 2440 Geel, Belgium

Grade from September 2020 till June 2022: Summa Cum Laude

High school - PROVIL / Industrial IT

2015 - 2020, 3920 Lommel, Belgium

High school - TISP / Industrial Sciences

2013 - 2015, 2400 Mol, Belgium

Awards

Best thesis of 2020 / City of Lommel

June 2020, 3920 Lommel, Belgium

I have won this prize with my thesis in the 6th year of high school. For my thesis I had to build a pump test stand for Watertechniek Teunissen in Pelt, Belgium. This project came to a great end, after which I won this award..

Personal projects

Home Automation by Jonas Claes

Private code

This was a small project to control lights, sprinklers, kitchen appliances and more from 1 platform. This is based on Node.JS, I worked with the Express library to create an API. Next to this, several web applications are used to integrate with Google Home / Google Assistant, provide an OAuth interface and a user interface. I have also built an Android app that consumes the OAuth API and the control API.

Tutorials and guides

<https://jonasclaes.be>

On my website I am regularly posting tutorials and guides on technology. For example, I have recently added a tutorial on how to setup and automatically unit test a TypeScript project using GitHub Actions. Another great example is my guide on how to set up a metal-as-a-service using traditional computers instead of servers for home use for example.

Want to see more projects? Make sure to take a look on my personal website for more projects.