

Ryan Bours - Software Developer

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Profile

Full Stack developer and Student at Fontys University of Applied Sciences. Currently studying: HBO ICT with a profile in Software + AI. Looking for opportunities to improve my skills and learn new ones.

Languages  Dutch, English

Skills

Technical proficiencies		Familiar Technologies		
Typescript	advanced	• Tailwind	• Kubernetes	• MQTT
JavaScript	advanced	• NextJS	• Terraform	• SonarCube
HTML/CSS	intermediate	• NestJS	• ArgoCD	• Pinecone
Python	intermediate	• Tauri	• Azure/GC	• Sci-kit
C#	intermediate	• Express.js	• Actions/Pipelines	• Tensorflow
Lua	intermediate	• Prisma	• SQL/NoSQL	• Langchain
Rust	beginner	• GraphQL(Federation)	• ReactJS	• Pinecone
Figma	intermediate	• Tailwind	• MQTT	• Laravel

Education

- 2020 -  **B Information & Communication Technology**,
Fontys University of Applied Sciences, Eindhoven - The Netherlands.
Profile: Software/AI.
- 2016 - 2020  **MBO4 Application- / Media developer**
VISTA College, Sittard - The Netherlands.
Profile: Mobile development/Bachelor prep.

Employment History

Feb 2023 - Jul 2023  **Intern Software Developer** Mediaan, Heerlen - The Netherlands.

- Responsible for making an POC agricultural sensor management dashboard using: Typescript, React, NextJS, NestJS, GraphQL and MQTT
- Made an extra tool that can generate artificial sensor data with simulated errors in C#, as tool for testing the main application
- The system collects data from sensors over MQTT, so that the user can inventorize and monitor their sensors
- Based on conditions defined by the users, real-time alerts will be send out when these custom rules are triggered

Employment History (continued)

Feb 2019 – Feb 2020

■ **Intern Software Developer** Selexions, Geleen - The Netherlands.

- Responsible for migrating and further development of their 3 secondment management portals
- Developed the backend of their vacancy search engine in C#, that is still being used
- Responsible for maintaining their 30+ VB scripts, that were used for various tasks, but mainly printing legal documents

Projects

■ **multi-Tenant LLM-powered FAQ Chatbot composer,**

Full stack app that allows the creation of multiple chatbots within minutes, using modular pipelines that gather data from multiple different knowledge sources.

- A project made for the company CY2, as replacement of their existing chatbot creation workflow
- Created a backend that allows for a modular creation of chatbots, by creating a pipeline where the user can configure and reuse various datasources (sharepoint, ftp, etc.)
- Reduced the time it took for them to create a chatbot, from 6 months to 6 days
- Currently being internally tested
- Used: React, NestJS, Prisma, Langchain, Pinecode, OpenAI

■ **KanjizSearch**

Personal project. [Project Repository](#)

A desktop application that tries to recognize Kanji Characters using ML.

- Created a Desktop Application that can recognize Kanji characters from a hand-drawn image
- The application returns a list of confidences, for assisted correction
- Fetches information about the character from a third-party API, to give the user more insight regarding the character.
- Made in Typescript and Rust using: Tauri, React, Tailwind, Tensorflow, ONNX