



Hello! My name is

Roel Leenders

Let's get in touch!
rcleende@gmail.com

Why would I make a great engineer at your company?

I'm a full-stack engineer specializing in AI-driven web applications. My experience spans startups to established companies, where I've engineered AI chat interfaces, custom SaaS apps, and LLM agents. Combining expertise in AI and full-stack development with product exploration skills, I bridge advanced technology and practical applications to drive business growth and user engagement.

Experience

Full Stack Engineer • Luna.ai - VC backed AI Start-Up

Sept. 2023 - Present • Remote, San Francisco

- Implemented complex LLM pipelines and agents using fine-tuned LLMs, RAG, and various prompt engineering techniques (e.g chain-of-thought and few-shot learning).
- Implemented a custom AI chat interface using React, which improved our user activation rate by 4x.
- Developed and maintained a custom A/B testing framework to measure LLM pipeline output quality, leveraging MixPanel, Segment, Express.js, and TypeScript.
- Built a custom software using React, Tailwind, and Next.js.

Front End Engineer • Fledge - Cloud ERP Software

Jun. 2022 - Sept. 2023 • Enschede, The Netherlands

- Led a team of 12 developers in modernizing legacy ERP software to a cloud-based service.
- Mentored 10 junior developers in Angular web development and Agile methodologies
- Developed custom ERP front ends using Angular, RxJS, and NgRx.
- Collaborated with stakeholders to define and implement product requirements.

Full Stack Engineer • PositiveDigits - Custom E-commerce Software

Jun. 2020 - Jun. 2022 • Den Bosch, The Netherlands

- Implemented DevOps best practices using Terraform, Kubernetes, and Docker for efficient e-commerce platform deployment and
- Developed custom e-commerce storefronts using TypeScript, PHP, and Tailwind CSS.

Full Stack Engineer • Acorel - SAP Consultancy

Feb. 2020 - Jun. 2020 • Den Bosch, The Netherlands

- Improved the product recommendation system of Intergamma, utilizing Neo4j and Java Spring Boot.

Front End Engineer • JouwWeb - Website Builder SaaS

Sept. 2018 - Jan. 2019 • Eindhoven, The Netherlands

- Developed multiple configurable templates using React, for a website builder. Now used by over 100,000 active customers

Links

[→ Visit my LinkedIn](#)

[→ Visit my GitHub](#)

Tech Stack

TypeScript

Python

React

Next.js

GCP

Docker

Hugging Face

PyTorch

LangChain

My Skills

Full Stack Engineering

Multi Agent Systems

Natural Language Processing

Data Engineering

Speech Processing

My Interests

Artificial Intelligence

Psychology

Music Production 🎵

Avid Reader

Travel Lover

Languages

English (C2, Proficient)

Dutch (Native)

Korean (A1, Beginner)

Education

M.Sc. Interaction Technology · University of Twente. - GPA: 8/10

2021 - 2023 · Enschede, The Netherlands

Relevant Coursework: Natural Language Processing, Machine Learning, Deep Learning, Human-Computer Interaction, and Conversational Agents.

Thesis (conducted at 부산대학교, Korea): Research in Human-AI collaborative models. Grade: 8.5/10

B.Sc. Computer Science · Avans Hogeschool - GPA: 7.5/10

2016 - 2020 · Enschede, Netherlands

Relevant Coursework: Natural Language Processing, Machine Learning, Deep Learning, Human-Computer Interaction, and Conversational Agents.

Minor (conducted at 부경대학교, Korea): Exchange study which focused on the understanding of Korean language and culture.

B.A. Guitar · Conservatoire of Music Amsterdam - *Propedeuse*

2015 - 2016 · Amsterdam, Netherlands

Studied the (electric) guitar. Extensive coursework in composing, producing, and performing (pop) music.

Publications

Leenders, R., Camin, P., Velner, E., & Theune, M. (2022). Björn: An interrogation simulator. In Proceedings of the first international conference on hybrid human-machine intelligence. IOS Press. Retrieved from <https://ebooks.iospress.nl/doi/10.3233/FAIA220213>