

REFERENCE LETTER

Employee: Dénes Tornyi

Role: Senior Software Engineer / Nokia Budapest

Employment dates: 20.03.2024-21.12.2025

Manager: Riku Kaura-aho / Edge Platform Lead / Nokia Digital Automation Cloud

Dénes was working in our organization in an R&D team earlier and I was happy to rehire him to my team to work on AI architecture and research topics.

Dénes led Project Octopus, a centralized project space for publishing and inner-sourcing NLP solutions across Nokia. He demonstrated exceptional skills in low level software engineering, algorithm optimization, mathematical modeling and data engineering. He produced a remarkable volume of high-quality code while maintaining the ability to teach others the internals of his solutions from directors to junior engineers.

Among his key accomplishments, Dénes architected and developed three significant projects:

- tiresias - An SQL interpreter state machine integrated with llama.cpp to guide LLMs toward generating grammatically and semantically correct SQL queries.
- dataman - A microservice based data warehouse project that was deployed in our lab, offering augmented LLM resources to the team.
- gonokia - A repository of reusable Go packages.

Dénes demonstrated dedication to networking with the different divisions of the organization. He was passionate about building an inner-sourced project framework where improvements made by any team would benefit the entire organization. His vision was to transform isolated NLP projects into a collaborative engineering ecosystem.

As a summary, Dénes has exceptional technical skills as software engineer to get his vision implemented. Dénes makes excellent reports and analyses to support learning and making decisions.



Riku Kaura-aho

riku.kaura-aho@nokia.com

+358 40 506 7027