Backend Developer - .NET, Azure and AI

Deadline:
21-12-2026

Contact person:
Andreas Utzon-Frank

Position type:
Fuldtid

Building an AI prototype is one thing. Making it secure, reliable and useful in everyday work is another.

At Metroselskabet, you will help turn AI and modern cloud technology into practical tools that colleagues can rely on — connecting internal knowledge, data and business systems, with clear access controls and results that can be checked.
We are looking for a backend developer who combines strong software engineering skills with hands-on AI experience. You will work on solutions from the first idea through to production and ongoing operation, helping shape both how they are built and how they perform in practice.

The workplace behind Copenhagen's metro

Metroselskabet owns, plans and builds Copenhagen's metro. Behind the trains and stations is a workplace where colleagues across engineering, construction, operations, IT and business functions work together on the infrastructure the city depends on.
Digital development is connected to that work. In this role, your contribution will be through the tools colleagues use: helping them find relevant knowledge, work across systems and complete tasks more effectively. You will work close to the people using your solutions and see how technical choices translate into everyday improvements.

Your role

You will build and maintain backend services, APIs and integrations using .NET/C# and Azure. Alongside conventional software development, you will develop AI-powered applications that combine internal information with controlled, clearly defined actions.
Your responsibilities will include:

- Developing well-structured, testable backend services with clear API contracts.
- Building AI solutions using Azure OpenAI and/or Microsoft Foundry, including retrieval-augmented generation (RAG) and controlled workflows with tool calling.
- Connecting applications to internal data sources and systems, with appropriate access controls and traceable source references.
- Bringing solutions into production through automated testing, CI/CD, monitoring and robust error handling.
- Working with colleagues across business functions, IT, security and operations to understand needs, prioritise improvements and deliver practical results.

We value sound judgement. Sometimes the right solution is AI. Sometimes it is a straightforward integration, a better search function or a simpler process.

What you can expect at Metroselskabet

You will join an informal workplace with a short distance to colleagues and decisions. We combine high professional standards with trust in how people approach their work — and room for a sustainable working life.
In this role, that means taking responsibility for solutions throughout their lifecycle while working with colleagues on requirements, technical choices, security and day-to-day use. You will have room to propose improvements, discuss trade-offs and help shape solutions rather than simply implement a fixed specification.

What you bring

You are a strong backend developer who takes ownership, enjoys collaborating and cares about what happens after deployment.
We are particularly looking for:

- **Solid .NET/C# experience**, including ASP.NET Core, APIs, integrations, asynchronous programming and automated testing.
- **Practical Azure experience**, including application hosting, identity and access management, secrets management, monitoring and secure deployment. Familiarity with Docker, infrastructure as code and CI/CD is important.
- **Hands-on AI engineering experience**, including model integration, prompt design, structured outputs and function/tool calling.
- **An understanding of RAG**, including document processing, embeddings, search and retrieval, source references and evaluation — with attention to answer quality, not just whether the application produces a response.
- **A production and security mindset**, with attention to reliability, performance, costs, data protection and clearly defined access boundaries.

You use AI tools actively and critically in your own development work, providing relevant context and validating the output rather than accepting it at face value.
Experience with MCP, Open WebUI, LiteLLM or local models is a plus, but not a requirement. We do not expect you to know every technology in our stack.

How you work

You can turn an unclear request into a well-defined problem and a practical solution. You explain technical choices in plain language and communicate progress, trade-offs and risks openly.
You work independently while involving others when needed, and you take responsibility for documentation, quality and continuous improvement.
You are curious about new technology without being driven by hype. You understand AI's limitations, take GDPR and responsible data use seriously, and enjoy sharing your knowledge so colleagues can make informed use of AI themselves.

Application deadline

Please submit your application **no later than 21st of December**.
For any questions about the role you may contact the Team Manager, Andreas Utzon-Frank, auf@m.dk