

Sotiris Dragonas

Senior Software Engineer - Developer Tools (AL Language)

Copenhagen, Capital Region · Denmark · Hybrid

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SUMMARY

Compiler and runtime engineer with over five years building the AL (Dynamics 365 Business Central) language runtime, static analyzers, and data systems. Currently building autonomous agents integrated with the language. Expertise spans compiler design and writing highly performant code.

EXPERIENCE

Microsoft

Senior Software Engineer | Developer Tools (AL Language)

2023-09 — Present Denmark

AI, language-server, and VS Code tooling for Business Central's AL language.

- Led the design and implementation for the Copilot agent authoring experience in Business Central via AL.
- Built an always-on profiler that became the standard for investigations across all customer environments.
- Introduced a tool to convert AL codebases to Kusto databases for fleet-wide static analysis.
- Architected real-time diagnostics for the language server, cutting the inner loop to milliseconds.
- Authored Roslyn analyzers for security-sensitive subsystems and contributed across the end-to-end compiler pipeline (lexer/parser/binder/emitter).
- Mentored 3 junior engineers; maintained Microsoft's public AL GitHub repository and community-facing contributions.

Microsoft

Software Engineer II | Server Runtime (AL)

2020-05 — 2023-09 Denmark

Performance and reliability engineer for the AL runtime and ORM powering Business Central SaaS.

- Reduced stop-the-world GC pauses from 2 s to under 200 ms, halving incidents year-over-year.
- Implemented SQL generation improvements via the in-house ORM and served as concurrency expert.
- Integrated malware scanning for uploaded files, completing a five-year security milestone.
- Investigated difficult customer issues via deep T-SQL dives and through terabytes of Kusto telemetry.

EDUCATION

National Technical University of Athens

MSc Electrical & Computer Engineering

2014 — 2020 GPA 8.1/10

PROJECTS

Thesis: Automatic framework for lock-free, thread-safe tree structures using Hardware Transactional Memory

Easily add concurrency to existing binary search tree implementations.

2019-09 — 2020-01 Prototype & research

SKILLS

Languages & Frameworks	C#, TypeScript, Python, SQL, Azure, Roslyn
AI	Agentic development, MCP, LLM
Domains	Compilers, Debuggers, Runtimes, Static Analysis, Security, Parsing, Binding, Emitting, ORM, Concurrency
DevOps & Tooling	Azure Pipelines, GitHub Actions, Kusto, VS Code Extensions
Architecture	REST APIs, Multi-tenant, Distributed systems, Transactional

PUBLICATIONS

- Microsoft presents: Best Practices for Writing Performant Code in Business Central - Directions EMEA 2024, Vienna, AT (2024-11-07). Demonstrated how AL code becomes executable C# (directionsforpartners.com).
 - Microsoft presents: We Have Too Many Events! - Directions EMEA 2024, Vienna, AT (2024-11-08). Explained optimized event-driven programming in AL. directionsforpartners.com
 - Microsoft presents: Maximizing Partner Productivity with Essential Business Central Tools - Directions EMEA 2024, Vienna, AT (2024-11-07). Presented the always-on performance profiler. directionsforpartners.com
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LANGUAGES

- English - Fluent
 - Greek - Native
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INTERESTS

- Cognitive Science: Consciousness, Animal intelligence
- Machine learning: LLM, Reinforcement Learning
- Piano: Self-learning