

# PAUL SPENCER

Software Engineer

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## Summary

Software engineer with nearly three decades of delivering innovative solutions across fintech, energy, and govttech sectors. Completed a Master's in Software Engineering in 2022 while maintaining full-time employment. Currently architecting AI and emerging technology solutions while maintaining focus on practical business outcomes. Hardworking, adaptable and committed to continuous professional development.

## Experience

<b>Khonraad Software Engineering</b> (GovTech services company)	<i>Amersfoort, The Netherlands</i>
<i>Lead Emerging Technologies and AI Architect</i>	<i>Jan 2024 – Present</i>
<i>Head of Innovation</i>	<i>Jan 2020 – Jan 2024</i>
<i>Software Engineer</i>	<i>Apr 2019 – Aug 2019</i>

Technologies: Kotlin, Java, C#, Azure, OpenAI, Kotlin Multiplatform, JetBrains MPS, Python

- Updated software to comply with new laws within core Java product development team
- Responsible for complete development lifecycle of the innovation projects, including:
  - A RAG chatbot providing guidance across the WvGGZ laws
  - A full-featured iOS and Android App using Kotlin Multiplatform with OpenAI integration
  - OCR integration solutions
  - Domain-specific language extension for Decision Engine using JetBrains MPS

<b>Captain McFunshines Software Engineering</b> (ZZP)	<i>Soest, The Netherlands</i>
<i>Freelance Software Engineer</i>	<i>Aug 2019 – Present</i>

Technologies: Kotlin, Azure, AWS, OpenAI, Kotlin Multiplatform, Python

- Developed Podmorph, an AI-powered solution for podcast and radio professionals
- Integrated multiple AI services (Anthropic, Google AI, OpenAI, Groq, Replit, Fal AI) deployed on AWS and Azure
- Five-month .Net consultancy engagement with Baker Hughes

<b>Baker Hughes</b> (Oil Service Company)	<i>Delft, The Netherlands</i>
<i>Freelance Software Engineer</i>	<i>Aug 2019 – Dec 2019</i>
<i>JewelEarth Platform Evangelist</i>	<i>Oct 2015 – Apr 2019</i>
<i>Senior .Net Developer</i>	<i>Jan 2014 – Oct 2015</i>

Technologies: C#, SQL Server

- Served as principal technical contact for external developers building JewelSuite extensions
- Developed and delivered training to ecosystem partners worldwide
- Presented development tools at conferences and helped onboard partners
- Designed platform support procedures and set up support department
- Member of team that developed the SDK and API for the JewelSuite platform

**Kempen & Co** (Investment Bank)  
*Senior .Net Developer*  
*Developer*

*Amsterdam, The Netherlands*  
*Dec 2009 – Dec 2013*  
*May 2007 – Dec 2009*

Technologies: C#, K2, SQL Server, VBA

- Delivered training on Entity Framework, Linq and Unit Testing/TDD
- Maintained and enhanced property securities indexing engine
- Developed application for maintaining and trading complex structured products
- Authored K2 Workflow (WWF) systems of business-critical processes

**Unisys** (Technology services firm)  
*Developer*

*Schiphol Rijk, The Netherlands*  
*May 2001 – May 2007*

Technologies: VBA, WebIntelligence, C#

- Responsible for reporting Accounts Receivables activity worldwide using WebIntelligence and Microsoft Office Automation
- Go-to person for fast turnaround ad hoc and recurring reports used for board-level decision making

**ACT Financial Systems** (Software Company)  
*Developer*

*London, UK*  
*Nov 1999 – Apr 2001*

Technologies: PICK, Databasic, Universe, Visual Basic 6

- Supported and developed FISCAL, a bespoke multi-currency, multi-market settlement system for stockbrokers
- Used Universe Databasic (PICK) to solve business, procedural, functional and technical problems
- Investigated and remedied software bugs and data corruptions

**HSBC Investment Bank** (Investment Bank)  
*Developer*

*London, UK*  
*Feb 1999 – Nov 1999*

Technologies: PICK, Databasic, Universe

- Developer for message processing, report writing, and screen handling programs

**Lloyds Bank Stockbrokers** (Stockbroker)  
*Support / Business Analyst*

*London, UK*  
*May 1997 – Feb 1999*

Technologies: PICK, Databasic, Universe, VBA, Visual Basic 4

- Implemented, tested and supported various third-party and in-house projects
- Developed reports on the Fiscal Settlement System

## Education

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**Universiteit van Amsterdam**  
*Masters Software Engineering*

*Amsterdam, The Netherlands*  
*Graduated 2022*

- Thesis: *Projecting Rules: Improving Comprehension of Business Rules with Projectional Editing*  
Making the Drools DSL Projectional with MPS
  - Courses: Requirements Engineering; Software Specification, Verification and Testing; Software Construction; Software Process; Software Architecture; Software Evolution; DevOps and Cloud-based software
  - Pre-Masters: Compilers; Functional Programming; Logic; Data Structures and Algorithms
  - Languages Used: Haskell, C#, Java, Python
- Note: *Completed while maintaining full-time employment*

**Wolverhampton University**  
*BA European Business Administration*  
**Hogeschool Holland**  
*HEAO Joint European Business Administration*

*Wolverhampton, U.K.*  
*Graduated 1996*  
*Amsterdam, The Netherlands*  
*Graduated 1996*

## Certifications

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- 15 Microsoft Certifications including 5 MCPDs in Windows, Web and Azure
- Netherlands Als Een Tweede Taal (NT2) Niveau 2

## Languages

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- **English:** Mother Tongue
- **Dutch:** Fluent spoken, listening and reading, intermediate written

## Additional Information

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- Available from 1 August 2024
- Dutch Driving License (B)
- Open to relocation