PAUL SPENCER

Software Engineer

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- Amsterdam, The Netherlands
- British and Irish (EU)

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Summary

Software engineer with nearly three decades of delivering innovative solutions across fintech, energy, and govtech 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

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

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

Captain McFunshines Software Engineering (ZZP)   *Soest, The Netherlands*
Freelance Software Engineer   *Aug 2019 – Present*

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

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

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)   *Amsterdam, The Netherlands*
Senior .Net Developer   *Dec 2009 – Dec 2013*
Developer   *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)   *Schiphol Rijk, The Netherlands*
Developer   *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)   *London, UK*
Developer   *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)   *London, UK*
Developer   *Feb 1999 – Nov 1999*

Technologies: PICK, Databasic, Universe

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

Lloyds Bank Stockbrokers (Stockbroker)   *London, UK*
Support / Business Analyst   *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

Universiteit van Amsterdam   *Amsterdam, The Netherlands*
Masters Software Engineering   *Graduated 2022*

- Thesis: *Projecting Rules: Improving Comprehension of Business Rules with Projectional Editing* Making the Drools DSL Projectional with MPS
- Courses: Requirements Engineering; Sofware 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   *Wolverhampton, U.K.*
BA European Business Administration   *Graduated 1996*
Hogeschool Holland   *Amsterdam, The Netherlands*
HEAO Joint European Business Administration   *Graduated 1996*

Certifications

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

Languages

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

Additional Information

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