PAUL SPENCER

Software Engineer

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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.

Experience

Khonraad Software Engineering — *Amersfoort, The Netherlands*

Lead AI and Emerging Technologies 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 — *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 — *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   *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   *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   *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   *London, UK*
Developer   *Feb 1999 – Nov 1999*

Technologies: PICK, Databasic, Universe

− Developed message processing, report writing, and screen handling programs

Lloyds Bank Stockbrokers   *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