






Dan Mazzei

Lead/Senior Software Engineer

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SUMMARY

Having honed my skills for almost a quarter of a century (as I started my career fixing vb6 Y2K date bugs), I've cultivated a deep-seated knowledge of cross- and full-stack development.

This expertise is not just a testament to my technical abilities but also to my commitment to driving impactful and user-centric innovations in the fintech space.

EXPERIENCE

Funding Circle UK — Lead Engineer

 February 2022 - October 2024  London, UK

 September 2017 - February 2022 — Senior Software Engineer

At Funding Circle, my role as Lead Engineer involved spearheading and supporting a team of six engineers, as well as designing and implementing solutions, advancing peer-to-peer lending technology, and optimising services for robustness and scalability.

- Designed and architected the solutions developed by the team
- Mentored and supported engineers, with a particular focus on code quality
- Presented talks on testing, code quality, system design, parallelism, and more
- Facilitated workshops on pair programming, best practices, and code smell
- Co-authored the company's system design interview
- Created several GitHub project templates to decrease boilerplate and shorten the project creation times

Core technologies: Python, Ruby (and Rails), Clojure, Kafka, Kubernetes, AWS Tools (S3, DynamoDB, Lambdas, Athena), Terraform, Postgres, Docker, ArgoCD, Drone, CircleCI, Jenkins, Mesos/Marathon, RabbitMQ, Prisma Cloud, Wiz, PagerDuty, OCR, TDD

4sight / Broadridge — Development Consultant

 June 2016 - September 2017  Edinburgh, UK

- Cross-stack development and maintenance across the whole suite of different products within 4SF – oracle 11g database and java server/transport layer, holding most of business rules and process; .Net WPF GUI (using Infragistics and Caliburn)
- Development and maintenance of packages, stored procedures and functions in Oracle
- Migration of the server architecture from Java 1.6 to 1.8, involving Maven, Hibernate and Spring framework
- Design and implementation of unit tests using Moq and NUnit to expand the code coverage

Core technologies: C# 6.0, .NET Framework, Java, Oracle, Microsoft SQL, Maven, C++/C

SKILLS

Python, Ruby/Rails, Clojure, Java, C#.NET, TypeScript/JavaScript/REACT, Shell Script, PL/SQL

Kafka/Streams/KsqlDB, Kubernetes, Docker, REST, RabbitMQ, Redis, Terraform, Artifactory, ArgoCD, Drone, Jenkins, CircleCI, Maven, Django, Flask, Nginx, FastAPI

MS SQL, Oracle, Postgres, MongoDB, DynamoDB, DB2, MySQL

AWS - Athena, S3, DynamoDB, Secrets Manager, Lambdas

System Design, TDD, CI/CD, Cloud Solutions, SaaS, Project Management, UML, OOP

LANGUAGES

Portuguese — Native
English — Proficient
German — Elementary

EDUCATION

The University of Sao Paulo

Degree, Mathematics · (2005 - 2008)

Pontifical Catholic University of São Paulo

Degree, Electrical Engineering (6 semesters concluded) · (2002 - 2005)

Humboldt Schule

Elementary and Secondary Education, Bilingual German-Portuguese school

Omnifone — Software Engineer

 January 2014 - June 2016

 Edinburgh, UK

MSS (Music Station Services) – Providing services for ingesting and querying large digital media and metadata volumes.

- Legacy system support and maintenance, based on C# 4.5/4.0; Rest API and MS SQL 2008R2
- Implemented new solutions for data extraction and intelligent metadata transformation using C# 6.0
- Part of the working group responsible for designing and implementing a new solution for audio analysis and music royalties identification to support the Music Industry, using Java 8, Maven and AWS architecture

Clevermed UK Ltd — Software Engineer

 October 2012 - December 2013

 Edinburgh, UK

BadgerNet – Maintenance and development of configurable interfaces.

- System Support and maintenance, using C# 4.0 / MS SQL 2008R2
- Creation of new interfaces for the system based on the BadgerNet Framework

Infographics UK — Software Engineer

 April 2012 - October 2012

 Edinburgh, UK

- System Support and maintenance of FloSuite – in-house BPM Software
- Design and Architecture of CSL – A Common Service Layer framework for all the company's systems

Core technologies: C# 4.0/4.5, .NET Framework, MS SQL 2008R2, Visual Studio

Sonda Procwork — Senior System Developer

 November 2010 - March 2012

 Sao Paulo, BR

SPED – System aimed at improving tax auditing and collection efficiency to improve transparency in Brazilian businesses. The ultimate objectives are improved investor confidence and reduced tax rates. SPED replaces submitting paper copies of financial data:

Core technologies: C# 4.0/4.5, .NET Framework, WCF, MS SQL, Oracle, RegEx, C++

Itaú Unibanco SA — Senior System Analyst

 May 2000 - May 2010

 Sao Paulo, BR

Designed, implemented and supported systems for Capital Markets:

- **Calculation of Indexers and Profitability of Funds:** system responsible for calculating and distributing index value and funds profitability. Team lead and project coordination
- **Portfolio Generation:** system responsible for funds portfolio and reports generation
- **Interfaces between Asset Management and Banking Systems:** middleware for high-volume data trafficking

Software Factory: three and a half years of experience in system development as part of an internal software factory. Working with interface design, media design and development of in-house training platform, Web/Mainframe interfaces, corporate intranet, interactive manuals

HOBBIES AND INTERESTS

Electronics and breadboard computers (6502 microprocessor), Assembly and 8-bit game programming, GameBoy Modding, Home Automation, 3D Printing, Sailing, Linguistics and Philosophy

FAVOURITES

Linux distro: Manjaro

IDE: NeoVim (AstroVim)

Tech book: CleanCode and Fluent Python

Gadget: Flipper Zero

Indentation: Four spaces

Keyboard: Moonlander (Kailh Box White)