



TOMASZ SUŁKOWSKI, PhD

Software Engineer

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EXPERIENCE

08/2022 – Present

Software development consultant

Dualog

- Development of Dualog Drive
(.NET 6-8, MediatR, Akka.NET, MassTransit, RabbitMQ, AWS S3 SQS, Redis, gRPC)
- Development of Dualog Fetch
(.NET 6, Mapster, MassTransit, RabbitMQ, gRPC)

Technologies
used:

.NET

AWS

MASSTRANSIT

08/2016 – 07/2022

Advanced senior software engineer & Product owner

Aptiv / Delphi

- Product and team management of web labeling tool
(Jira, Git, Azure, Docker)
- Development of web labeling tool
(Typescript, Angular, Node.js, MongoDB)
- Expansion of CARLA simulator to aid development of AI-related technologies
(Python, UE4, CARLA, NumPy, Numba, Pygame, OpenCV)
- Managing a team of 5 developers

Technologies
used:

TYPESCRIPT

PYTHON

MONGODB

Senior software developer & Team leader

Aptiv / Delphi

- Design and development of automatic lane pre-labeling tool
(C++ 14, OpenCV)
- Design and development of various internal applications: desk and parking space assignment, shuttle bus tickets
(.NET 4.5, ASP.NET MVC, EF, WinForms, Xamarin)
- Development of ORCAS – Data visualization tool
(.NET 2.0/4.5, WinForms, Rx)
- Mentoring a team of 3 .NET developers

Technologies
used:

.NET

ASP.NET

XAMARIN

07/2015 – 07/2016

Senior .NET developer

Low cost travel group

- Design and development of Merlin – property management solution
(ASP.NET Web API, MongoDB, AngularJS, Solr, JustMock)
- Design and development of Connectivity API - OTA property channel manager
(.NET 4.5, Kafka, Cassandra, ASP.NET Web API)
- Recruitment of .NET developers

Technologies
used:

.NET

ASP.NET WEB API

CASSANDRA

MONGODB

SOLR

10/2014 – 06/2015

Software developer

Sabre

- Development of FormatFinder / eServices portal
(ASP.NET 4.5, Sitecore, Oracle DB, Solr)
- Maintenance of legacy agency eServices project
(ASP.NET 1.1, Oracle DB)

Technologies
used:

ASP.NET

SITECORE

ORACLEDB

SOLR

12/2012 – 03/2014
(Additional job)

.NET developer

Meron

- Development of GTS – internal time/resources manager
(.NET 4.0, Silverlight 4, EF 4, MSSQL)

Technologies
used:

.NET

ENTITYFRAMEWORK

MSSQL

11/2010 – 09/2014

Software developer

IHS

- Development of Phoenix CMS
(.NET 4.5, Quark QXPS+QPP, XSLT, MSSQL)
- Development of Connect iPad client
(obj-C, Xamarin)
- Development of Castle/Connect information portal
(ASP.NET MVC 4, MSSQL, NHibernate, Rhino Mock)
- Development of ContentTool system
(.NET/ASP.NET 3.5, MSOffice Interop, MSSQL, XSLT)

Technologies
used:

.NET

ASP.NET

NHIBERNATE

MSSQL

02/2010 – 08/2010

.NET developer

IDMSA

- Design and development of automatic stock market playing system
(.NET 4.0, WCF, WF 4, MySQL)

Technologies
used:

.NET

WCF

WF

10/2009 – 02/2010

.NET developer

IT-IS

- Development and maintenance of policy continuation project
(.NET 2.0, WF 4, WCF, MSSQL 2008)
- Development of cPortal project for Compensa
(ASP.NET 3.5, MSSQL 2008)
- Development of Ewium project for Vienna Finanse
(ASP.NET 2.0, MSSQL 2008)

Technologies
used:

.NET

ASP.NET

WF

WCF

MSSQL

06/2008 – 08/2009

.NET developer

ITIGO Sp. z o.o.

- Development and maintenance of Petrostation project for Lotos
(.NET 2.0, WPF, WCF)
- Development of iPegaz project for Hestia
(ASP.NET 2.0, MSSQL 2005)
- Development of fuel station service project
(.NET 2.0, DevExpress XAF)
- Development of MOLP and Itigo licences portal project
(.NET 2.0, DotNetNuke, DevExpress XPO)

Technologies
used:

.NET

WPF

WCF

MSSQL

11/2006 – 06/2008

C# programmer

C.A.R. Board

- Development and design of ArchiveIT
(.NET 2.0, WinForms)
- Development and design of MarsMultiMonitor
(Borland C++ Builder, DB2)

Technologies
used:

.NET

WINFORMS

EDUCATION

2017 – 2023

PhD in Computer Science

Silesian University of Technology

- Doctoral thesis:
Autonomous driving algorithm implementation in simulated traffic
- Development of AutoDrive for CARLA Simulator
(Python, Numba (CUDA), OpenCV, NumPy)
- Research:
Autonomous Driving Using Fluid Flow Simulation (2022) [🔗](#)
Dynamic Trajectory Planning for Autonomous Driving Based on Fluid Simulation (2019) [🔗](#)
In Search of the Ultimate Autonomous Driving Simulator (2018) [🔗](#)

2003 – 2008

MSc in Computer Science

University of Gdańsk

- Master's thesis:
Intersection traffic simulation
- Development of TrafficSym [🔗](#)
(.NET, XNA/MonoGame)
- Modules included: Mathematical Analysis, Discrete Mathematics, Combinatorics, Software Engineering (Including Object Oriented Theory), Information Systems and Database Technology, Networks and Communication Systems, Operating Systems, Systems Architecture, Artificial intelligence, Parallel computing

PATENTS

US20220289202A1

Vehicle Movement Sensor for Autonomous Driving

LANGUAGES

Polish	Native
English	C1 Proficient
German	A1 Basic

INTERESTS

Motorsport

Practice and theory of drift and grip driving.

Simulation

Ability to experiment in virtual environment at low cost.

Artificial intelligence

Simple concept that solves complex problems.