



TOMASZ SUŁKOWSKI, PhD

Software Engineer

www.CodeAndDrive.com
[in](#) tomaszsulkowski
[soolek](#)
[RG](#) tomasz.sulkowski
tomasz_sulkowski@wp.pl
[+48 697 333 275](#)

EXPERIENCE

08/2022 – Present

Senior software engineer

Dualog

- Development of Dualog Move
(.NET, MassTransit over RabbitMQ, Azure S3 and SQS)

Technologies
used:

.NET

MASSTRANSIT

AZURE

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: Implementacja algorytmu autonomicznej jazdy w symulowanym ruchu ulicznym (Autonomous driving algorithm implementation in simulated traffic)

- 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: Symulacja ruchu ulicznego (Traffic simulation)

TrafficSym github repository 

- 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 without complex preparations and high costs.

 **Artificial intelligence**

Simple concept that solves complex problems.