



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)

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

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

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

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)

12/2012 – 03/2014

(Additional job)

.NET developer

Meron

- Development of GTS – internal time/resources manager
(.NET 4.0, Silverlight 4, EF 4, 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)
- 02/2010 – 08/2010 **.NET developer**
IDMSA
- Design and development of automatic stock market playing system
(.NET 4.0, WCF, WF 4, MySQL)
- 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)
- 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)
- 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)

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

 **US 20220289202** [🔗](#)

Vehicle Movement Sensor for Autonomous Driving

 **US 20230159081** [🔗](#)

Steering Wheel Ring Gear Shifter

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.