

# TOMASZ SUŁKOWSKI, PhD

## Software Engineer

www.CodeAndDrive.com

in tomaszsulkowski

 ${\sf R}^{\sf G}$  tomasz sulkowski

**4** +48 697 333 275

#### **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

#### 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

- 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

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

#### 11/2010 - 09/2014

#### Software developer

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)

## 

C.A.R. Board

 Development and design of ArchivelT (.NET 2.0, WinForms)

· Development and design of MarsMultiMonitor (Borland C++ Builder, DB2)

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)
- · Dosparch

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

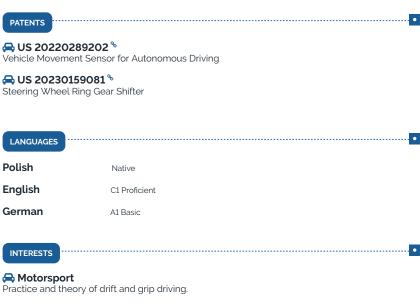
## **MSc in Computer Science**

University of Gdańsk

- Master's thesis:
- Intersection traffic simulation
- Development of TrafficSym

(.NET, XNA/MonoGame)

Modules included: Mathematical Analysis, Discreet 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



## Simulation

Ability to experiment in virtual environment at low cost.

#### Artificial intelligence

Simple concept that solves complex problems.