TOMASZ SUŁKOWSKI

Principal software engineer

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EXPERIENCE

08/2016 – present

Principal 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)
· Extend CARLA simulator functionality 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

.NET developer
Meron ✎

Contract work

· 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

2017 – 2022

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 (TBA)

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, 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

Polish	Native
English	C1 Proficient
German	A1 Basic

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.

☑ Programming & Scripting languages

.NET Framework	●●●●●
.NET Core	●●●●○
Typescript	●●●○○
Python	●●●●○
Javascript	●●●○○
C++	●●●○○
Java	●●○○○
Objective-C	●●○○○

☑ .NET legacy technologies

ASP.NET MVC	●●●●●
ADO.NET	●●●●○
WinForms	●●●●●
Web services	●●●●○
Xamarin	●●●●○
WF	●●●○○
WPF	●●●●○

☑ Python technologies

NumPy	●●●●○
Pygame	●●●○○
Numba	●●●●○
PyOpenCV	●●●○○

☑ Databases

MongoDB	●●●●●
MSSQL	●●●●○
PosgreSQL	●●●●○
Cassandra	●●●○○
Oracle	●●○○○

☑ Test frameworks

Nunit	●●●●●
Mocha	●●●●○
Mspec	●●●○○
Rhino mocks	●●○○○
Sikuli	●●●●○

☑ Web technologies

Angular	●●●○○
jQuery	●●●○○
HTML	●●●●○
CSS	●●●●○

☑ ORM

NHibernate	●●●●○
EntityFramework	●●●●●
DevExpress XPO	●●●○○

☑ CMS

Sitecore	●●●●○
DevExpress XAF	●●○○○
DotNetNuke	●●●○○

☑ Development tools

Git	●●●●●
JIRA	●●●●●
GitLab	●●●●○
Jenkins	●●●●○

☑ Other

Solr	●●●●○
Kafka	●●●○○