

Marcin Aleksander Nowak

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Homepage	http://resume.marcinnowak.info
Nationality	Polish
Residence permit	Type C

Expertise:

Software Architecture	Hoisting, Analysis, Evaluation, Patterns and Styles, ATAM, CBAM, Requirements and Decisions Management, 4+1 Views, ADD, Twin Peaks Model, ISO 42010,
Coding	Java, .NET, C/C++/C#, Ruby, Python, R, Groovy, JavaScript, Bash,
Toolchain	J2EE, RAML, Docker, Maven, Jenkins, GCP, AWS, SonarQube, VS
Software Engineering	TDD, BDD, Code & Process metrics, Static and dynamic verification, CI,
Development Process	Agile, RUP, TFS, Scrum, Kanban,
Modeling	XML/XSD, JSON/JsonSchema, UML
Web	Apache, nginx, Node.JS, Backbone.JS, Marionette, Angular, RoR, Play,
Operating Systems	Linux, OSX, Windows, Android,
Physics	Laser Optics, Modeling of Physical and Chemical processes,
Certifications	SEI Software Architecture Professional, MS 70-529, MS 70-536, OMG OECB Fundamental, ISTQB Tester

Professional interests:

Full-stack and back-end solutions, IoT, (micro-) service, cloud, serverless architectures, machine learning, big data

Academic path:

Mar. 2009 – Sep. 2014	Ph.D. - Computer Science at University of Lugano, Switzerland Collaborative architecture decisions modeling, https://goo.gl/QqTBqy Software Architecture Warehouse https://goo.gl/2LFSQ0
Oct. 2004 – Jul. 2007	M.Sc. - Graduate Studies in Physics at University of Hannover, Germany Laser spectroscopy of ultracold SO ₂ molecules http://goo.gl/k8bhlt
Sep. 2001 – Jun. 2004	B.Sc. - Physics at University of Poznań, Poland

Selected Publications:

Marcin Nowak, Cesare Pautasso "Team Situational Awareness and Architectural Decision Making with the Software Architecture Warehouse" in Proceedings of the European Conference on Software Architecture (ECSA) 2013, Montpellier, France

Marcin Nowak and Cesare Pautasso "Collaborative Design with the Software Architecture Warehouse" At SATURN Conference, Carnegie Mellon, Software Engineering Institute, San Fransisco, CA, 2011

Professional Path:

Mar 2019 – Now	TX.group (former Tamedia) – www.tx.group (Zurich, Switzerland) Lead Software Engineer – Scoped, Designed and Lead Implementation of a subscription-based digital media eComemrce solution (NodeJS, TypeScript, OpenAPI, AWS, JIRA/Xray, BDD, Cucumber)
Sept 2018 – Feb 2019	Sonyx Software (Zurich, Switzerland) Self-employed – cryptocurrency trading, intelligent home, IoT (algorithmic trading, private cloud, MQTT, Arduino, ESP8266/32)
Nov. 2015 – Sept. 2018	swissQuant – www.swissquant.com (Zurich, Switzerland) Maintained and extended java core component for the investment portfolio optimization. Modeled and implemented component’s RESTful API. (Mixed-Integer Quadratic Problem optimization, BDD, REST, Docker)
Nov. 2014 – Nov. 2015	Roche Diagnostics International – roche.com (Rotkreuz, Switzerland) Designed of testing architecture, analyzed existing software architecture for the Cobas Liat point of care molecular diagnostics instrument. (MS VS, BDD, TDD, EA, UI testing, TFS)
Mar. 2009 – Sept. 2014	University of Lugano – www.usi.ch (Lugano, Switzerland) Research and Teaching assistant for Bachelor (Software Atelier – Web Technologies) and Master (Software Architecture and Design) courses. Design, coordination, and development of SAW rich-client web application (RoR, Backbone.JS, Marionette)
Jan. 2008 – Feb. 2009	Zühlke – www.zuehlke.com (Hannover, Frankfurt, Vienna) Supported Software Engineers in software design and development process, architect and analyst, Microsoft .NET technologies specialist. (.NET, TFS, Biztalk)
Aug. 2007 – Dec. 2007	Sonyx – www.sonyx.net (Bremen, Niedersachsen, Germany) Self-employed freelancer working with heavy and car industry, consulting on software architecture analysis, design and implementation. (C# .NET, C++, Design Patterns)
Mar. 2005 – Aug. 2007	IKN – www.ikn.eu (Neustadt am Rübenberge, Hannover, Germany) Developed of the XML data input/output system, static code analyst of the clinker processing line (C# .NET, XML, XSLT, XSD)
Dec. 2006	Lafot & UniColor International – www.lafot.com (Beijing, China) Short time contract on the implementation of windows+linux color management and image processing system. (C++, QT, .NET)
Jan. 2006 – Apr. 2006	IKN & PSP – www.pspeng.cz (Prerov, Czech Republic)
Jun. 2005 – Aug. 2005	Refactored and improved of clinker line model (Borland C++, Unix + windows system engineering, wiki and revision control system)
Jan. 2000 – Feb. 2005	Lafot – www.lafot.com (Puszczykowo, Poznan, Poland) Medium scale MS VisualStudio .NET (C++) based image processing project manager & co-developer, build and code versioning controller

Language skills:

Polish	native
English	proficient (C2)
German	fluent (C1)
Italian	basic (B1)

Personal points of interest:

Bitcoin trading, Alpine skiing, mountaineering, snowshoeing, and hiking, Motorcycle touring, IoT home automation and robotics, Acrylic painting