Wojciech Waga

Curriculum Vitae

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Education

2007–2012	**Ph.D.**, *University of Wrocław, Department of Genomics*, Wrocław
2002–2007	**M.Sc.**, *University of Wrocław, Institute of Computer Science*, Wrocław

Master thesis

title	*Computer modelling of evolutionary processes.*
supervisors	Dr Wojciech Bożejko

Doctoral thesis

title	*Computer modelling of the phenomena accompanying a complementation of haplotypes.*
supervisors	Prof. dr hab. Stanisław Cebrat

Achievements

- Best poster prize at COST MP0801 Second Annual Meeting May, 26 – 29, 2010
- Dean's award for best PhD students, 2010

Experience

2022.06-now — **Sr. Software Engineer**, *Vay.io*, Berlin
Maintaining and developing telemetry data pipelines for driverless vehicles. Migration of a legacy data lakehouse based on AWS Athena to Snowflake.

2021-2022.06 — **Sr. Software Architect**, *DXC/Microsoft*, Wrocław
Working on a cloud-native 5G core network on Azure. *(details covered by an NDA)*

2013–2021 — **Solution Architect (VP)**, *Credit-Suisse*, Wrocław
Redesigning of ~20 year old banking system with enormous maintenance cost. The objectives were to drive down the *TCO* by reducing the amount of required resources without sacrificing performance and functionality, adding widely available *API* for onboarding new client platforms, adding backup and point-in-time restore to allow for analyses on older dates and a high-availability with hot spares. The new product had to be cloud ready as the Bank was starting transition to a public cloud at the time. My second task was to design an operational data store, a brand new product in credit risk architecture landscape. The *ODS* was meant to be a data exchange platform facilitating data transfers between systems with various needs and often incompatible interfaces. It allowes clients to subscribe for notifications to track data changes at chosen granularity level, it does data versioning by default as well as has a builtin search engine. *ODS* is able to consume a wide variety of data as long as they were representable in the *JSON* format. The system is backed by a replicated *NoSQL* database (*MongoDB*) to keep availability at a decent level. *REST* endpoint updates and usually a database upgrade can be made with zero downtime thanks to smart load balancing and replication.

2012–2013 **C++ application developer**, *Credit-Suisse*, Wrocław

C++ programmer responsible for credit risk management system–*INSIGHT*. *INSIGHT* is a batch processing system that loads daily trades from all over the world and computes bank's exposures to all counterparties. As trading volume keep rising there is constant need to improve performance and lower memory footprint to meet the SLA. *INSIGHT* is based on technologies like *C++11*, *Boost*, *Sybase*, *Multithreading*

2009–2012 **Computer programmer**, *WCSS*, Wrocław

C++ programmer in a team of three people developing an open-source, fully extendible network alert correlation framework–*ACARM-ng*: `www.acarm.wcss.wroc.pl`. *ACARM-ng* is a distributed system that gathers information from Snort-like *IDS* (*Intrusion Detection System*) finds patterns and presents them to system admins or takes autonomous action.

2008–2009 **Computer programmer**, *WCSS*, Wrocław

C developer for *NDS - National Data Storage*: `nds.psnc.pl`, a fully distributed parallel file system with automatic replica management, data compression and encryption.

2008–2009 **Junior IT specialist**, *PSNC*, Poznań

Preparing specifications for the *PRACE* project: `www.prace-project.eu`.

2007–2008 **System administrator**, *WCSS*, Wrocław

Administration of a 500+ nodes computer cluster running Linux operating system at the biggest data centre in lower silesian region – Wroclaw Centre for Networking and Supercomputing

Languages

Polish	**native speaker**	
English	**C1**	*CAE Certificate*

Skills

MongoDB	expert		Linux/Bash	very good
Snowflake	very good		dbt	good
Airbyte	good		Hightouch	good
Docker	very good		Kubernetes	good
Terraform	very good		microservices	very good
Python	good		SQL	good
git	very good		Jira	very good
networking	good		data lake	very good
AWS	EC2, S3, ECS, Route53, CloudMap, CloudWatch, Kinesis, Athena, Glue, Batch, RDS, Lambda, SecretsManager, SFN			

Certifications

MongoDB	Certified MongoDB Developer

Hobby

- IoT
- Hiking
- Mountain biking
- DIY