

Dr. Piotr Rygielski

🏠 Berlin area, Germany

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Work and Research Experience

D4L data4life gGmbH

Potsdam, Germany

SENIOR DEVELOPER

Aug 2019 – present

I develop a secure analytics platform for the medical research community to deliver insights for improved quality of life and better health.

- Configured, deployed, and operated a columnar, in-memory DB (SAP Hana) for medical data of ~9 billion entries (including ETL process)
- Developed and deployed services for medical data analysis (Go, Python, Kubernetes, private cloud)

SAP Innovation Center

Potsdam, Germany

DEVELOPER / SENIOR DEVELOPER

Apr 2019 – Jul 2019

Responsible for development, operation, and testing of cloud platform (AWS, Kubernetes) for HIPAA-compliant health-care solutions.

- Promoted to Senior Developer after 2 years (average time required to advance is 6 years)
- Awarded with „SAP Spot-Award” for „extraordinary engagement and outstanding work results”
- Participated in incident management and on-call duty for the last 18 months
- Gave a talk about security architecture at „SAP D-Kom” conference with audience of over 6k participants
- Obtained a Deep Learning Nanodegree (4 months) and organized a full-day ML workshop about AWS SageMaker for 16 participants

University of Würzburg

Würzburg, Germany

DOCTORAL RESEARCHER

Nov 2014 – Mar 2017

Responsible for: building a research data-center, designing and maintaining a publication system for research SEO, teaching.

- Acquired two grants: research and computing equipment for over 350k€ in total
- Designed, ordered, build, and operated a data-center with 40 servers and 7 switches for research purposes
- Lead five student groups of which four won prizes for the best application (software development course)

Karlsruhe Institute of Technology (KIT)

Karlsruhe, Germany; London, UK

EARLY STAGE RESEARCHER, MARIE CURIE FELLOW

Nov 2011 – Oct 2014

Participated as fellow in EU project: “RELATE ITN: Trans-European Research Training Network on Engineering and Provisioning of Service-Based Cloud Applications” including a **research visit at Kings College London**, Dr. Steffen Zschaler (3 months).

- Improved performance twofold of a „Cambridge Traffic Monitoring” case study by fixing multiple memory leaks (C/C++)

Wrocław University of Technology, Faculty of Computer Science and Management

Wrocław, Poland

RESEARCH ASSISTANT, SOFTWARE DEVELOPER

Aug 2009 – Sep 2011

Responsible for delivering specifications and implementations for two Innovative Economy EU projects “Future Internet Engineering” and “New information technologies for electronic economy and information society based on service-oriented architecture”.

- Specified and implemented parts of an e-health scenario that served as a successful demonstrator for the functions of the Future Internet

Education

Karlsruhe Institute of Technology (KIT) and University of Würzburg,

Karlsruhe and Würzburg, Germany

PHD (DR. RER NAT), MARIE CURIE FELLOW

2011 – Mar 2017

Doctoral thesis: „Flexible Modeling of Data Center Networks for Capacity Management”, final grade: magna cum laude (very good).

- Published over 20 publications in peer-reviewed journals and international conferences (2008-2018) – see <http://go.uniwue.de/piotr>

Wrocław University of Technology, Faculty of Computer Science and Management

Wrocław, Poland

MSc+BSc (MGR INŻ.)

2004 – 2009

Master program with focus on: algorithms, data structures, IP networking, machine learning, control theory. Final grade: very good.

- Published three papers thanks to active participation in research teams (neural networks and simulation) while still being a student
- Wrote a simulator with a recurrent neural network for predictive optimization of network traffic (C/C++) that contributed to 5 papers and 1 PhD

Skills and Strengths

Programming Technologies Languages

Coding polyglot. Recently used languages: Go, Python, Bash, Scala, Perl.

AWS, Kubernetes, PyTorch, HashiCorp Vault, Ansible, Linux, git, SAP Hana, EMF Ecore, networks.

Polish, English, German (fluent, working), Swedish, Russian, Norwegian (basics, hobby).

Free Time

Hobbies

New technologies, foreign languages, sailing, polar expeditions (reading), science and astrophysics.

Licenses

EU driving license A+B, Yacht Skipper Certificate (from Polish Yachting Association).