

Florian Rappl

Curriculum Vitae

Digital native, solution architect for large web and IoT applications deployed in cloud infrastructures. Specialized in the design of RESTful APIs, microservice-powered backend solutions, and distributed websites using micro frontends. Strong background in the development of HPC, client, and web apps. Alumnus of the Studienstiftung des deutschen Volkes and Microsoft MVP in the area of developer technologies.

Professional Experience

smapiot GmbH

2019 – **Solution Architect**, Munich.

present Responsible for the full development of a young innovative startup operating in the areas of digital transformation and IoT. Lead the hiring process and the development of a product for creating solutions using microfrontends. Highly involved in team management. Helped to align the general business model and strategy of the company.

ZEISS Digital Innovation Partners

2017 – 2019 **Solution Architect**, Munich.

Responsible for overall architecture and technical decisions of the ZEISS Portal, a distributed web application consisting of a microservice driven backend with GraphQL gateway. Involved in the hiring process, team management, and general digital strategy of ZEISS / Digital Innovation Partners.

iQuest GmbH & Co. KG

2017 **Solution Architect**, Dortmund.

Responsible for redesigning the architecture of the Innogy SmartHome UI cross-platform application. Leading a remote team of software engineers from different countries. Involved in large-scale refactoring decisions and cross-component integration.

2016 **Sr. Technical Consultant**, Dortmund.

Requirements engineering and solution architecture for the RWE / Innogy SmartHome project incl. POC development. Responsible for an ALM redesign and the external API refinements. Security and performance considerations. Software development enhancements and quality assurance. Driving innovations and novel ideas.

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University of Regensburg

- 2012 – 2015 **Research Assistant**, Regensburg.
Research in the field of scientific simulations and data analysis including algorithmic and numerical work. Worked on low level code for High Performance Computing for massively parallel architectures, e.g., the Intel Xeon Phi. Member of the QPACE 2 team, with expertise in advanced parallel programming.
- 2010 – 2014 **Course Development**, Regensburg.
Initiated and maintained lectures in the area of IT education such as software design patterns, web applications, C#, or JavaScript.
- 2009 – 2012 **Teaching Assistant**, Regensburg.
Created, verified, and evaluated homework assignments and final tests. Supported the tutorials of courses like Maple, LaTeX, or MATLAB.

Freelancer

- 2009 – present **IT Consultant**, Regensburg, Boulder, Munich.
Consulting companies in creating and maintaining software with high efficiency. Specialized in large refactorings, performance evaluations, and cross-platform development.

Avago Technologies GmbH

- 2007 – 2009 **IT Consultant**, Regensburg.
Improved the company's IT infrastructure with robust and efficient solutions. Designed the architecture for multiple applications. Implemented, reviewed, and documented project progress for LOB applications.

Infineon Technologies AG

- 2004 – 2007 **Jr. Software Engineer**, Regensburg.
Attended a three-year program certified by the German chamber of commerce with special training provided by Siemens Professional Education. The program involved the creation, implementation, and maintenance of enterprise solutions.

Skills

Cloud and Data Platforms

Azure, Kubernetes, Docker, FaaS
Cassandra, MongoDB, PostgreSQL, MySQL

Software Engineering

CI/CD, ALM, UML, Microservices, Micro Frontends
Software Design Patterns, TDD, SOLID, FP, Extreme Programming, Scrum

Software Applications

Windows, dotnet, PowerShell, Office, Visual Studio
Linux, Node.js, Vim, VSCode, Git
Atlassian Suite, Azure DevOps, GitHub

Computer Languages

C/C++, C#, JavaScript, TypeScript, LaTeX
HTML, XML, CSS, SASS, Markdown, SQL

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Education

- 2012 – 2015 **Ph.D.**, *Physics*, University of Regensburg, Germany.
Completed the dissertation with title *Feynman Diagram Sampling for QCD on the QPACE 2 Supercomputer* in December 2015, magna cum laude.
- 2011 – 2012 **M.Sc.**, *Physics*, University of Regensburg, Germany.
Research in the field of High Energy Physics, Thesis in High Performance Computing, very good (grade 1.0).
- 2010 – 2011 **Graduate**, *Physics*, University of Colorado, Boulder.
Research in the fields of High Performance Computing and High Energy Physics, very good (GPA 4.0).
- 2007 – 2010 **B.Sc.**, *Physics*, University of Regensburg, Germany.
Thesis in Theoretical Physics with specialization biomechanics, good (grade 1.6).
- 2004 – 2007 **Applied Computer Scientist**, *IHK*, Regensburg.
Jr. Software Engineer working at Infineon Technologies with certified graduation.

Human Languages

German

native language

English

full professional proficiency (ILR scale)

Awards and Honors

- 2023 – **dev.to Moderator**.
present Articles about programming
- May 2019 **Serverless Computing Competition**.
First prize
- Jul 2018 **Arduino Coding Challenge**.
Second prize
- Aug 2016 **CodeProject IoT Competition**.
First prize in the category *Smart Home*
- Apr 2015 **Microsoft Azure IoT Contest**.
Second prize
- Nov 2013 **Intel Perceptual Computing Contest**.
Pioneer award
- Mar 2013 **Intel Perceptual Computing Contest**.
First and second prize
- 2013 – 2019 **CodeProject MVP**.
Articles about programming
- Dec 2012 **Intel App Innovation Contest**.
First prize in the category *Education* and overall
- 2012 – **Microsoft MVP**.
present Developer Technologies

Scholarships

- 2013 – 2015 **Studienstiftung des deutschen Volkes.**
Research and expenses (PhD in theoretical particle physics)
- 2010 – 2011 **German Academic Exchange Service (DAAD).**
Tuition and expenses (University of Colorado at Boulder)

Recent Engagements

- Sep 2023 **MunichJS Meetup.**
Organizer, speaker, and webmaster
- Feb 2019 **ReDI School of Digital Integration.**
Mentor and guest lecturer
- Aug 2012 **Microsoft Developer Group Regensburg.**
Organizer, speaker, and webmaster

Further Qualifications

- May 2012 **Business Plan.**
Seminar at the University of Regensburg.
- Mar 2012 **Management.**
Summer school by the Hans-Lindner-Foundation.
- Dec 2011 **Public Relations.**
Seminar at the University of Regensburg.
- Nov 2011 **Project Management.**
Seminar at the University of Regensburg.
- May 2005 **Semiconductor Fabrication.**
Workshop at Infineon / Siemens Professional Education.
- Dec 2004 **Presentation Techniques.**
Seminar organized by Siemens Professional Education.