

# Peter Gemeiner

## Curriculum Vitae

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### Education

- 2004–2010 **Ph.D.**, *Faculty of Electrical Engineering and Information Technology*, Vienna University of Technology.
- 2007 **Intern**, *Prof. Dr. Andrew Davison, Imperial College London, London, UK*.
- 2002–2004 **M.Sc.**, *Faculty of Electrical Engineering and Information Technology, STU Bratislava*.

### Certificates

- 12/2024 AWS Certified Machine Learning Specialty
- 09/2024 AWS Certified DevOps Engineer Professional
- 12/2023 HashiCorp Certified Terraform Associate
- 10/2023 AWS Certified Solution Architect Associate
- 10/2023 AWS Certified Cloud Practitioner

### Professional Experience

- 01/2019–now **AI Engineer | AWS Solution Architect**, *VisualSearch, Austria, Self-employed*, Development of e-commerce plugins, deployment of automation tools, Skills: AWS, Python, PyTorch, PyTest, Terraform, CloudFormation, Lambda, Gitlab CI/CD, Docker, SQL.
- 05/2023–06/2024 **Project Manager REST-API**, *Austrian National Library*, Responsible for a software strategy project. Design and development of new ÖNB REST-API, Skills: Jira, Confluence, Java, REST-API, LLM, OpenAI, FastAPI, Docker, SQL, OCR, Gitlab CI/CD, Grafana.
- 02/2023–08/2023 **Python Developer**, *Target-Technologie, Freelance, Remote*, R&D software and algorithmic development for innovative steel recycling product, Skills: AWS, Gitlab CI/CD, Python, Scikit-Learn, PyTest, FastAPI, Pandas, OpenCV, SQL, Docker.
- 01/2022–08/2022 **Senior Data Scientist**, *Touch4IT, Freelance, Remote*, Evaluating various AI models and tools. R&D prototype of face tracking App. Debugging and optimizing on mobile devices, Skills: Unity, Keras, TensorFlow, Python, OpenCV, Deep Learning, ARCore, Unreal.
- 01/2021–06/2022 **Machine Learning Engineer**, *Pricemania, Freelance, Remote*, Evaluating AI models and tools. Developing solution to automate internal process, scalable deployment in AWS, Skills: AWS, Deep Learning, Embeddings, NLP, LLM, Python, PyTest, SQL, Docker, Git.
- 01/2020–09/2020 **Senior Data Scientist**, *Ciubo, Freelance, Remote*, Evaluating various AI models and frameworks. Implementing and deployment of AI solution in AWS cloud, Skills: AWS, REST-API, Object Recognition, Python, Keras, Tensorflow, SQL, NoSQL.
- 04/2011–05/2020 **Data Scientist**, *AIT Austrian Institute of Technology GmbH, Vienna, Austria*, Project lead, Project management, Project acquisition, Self-contained scientific work, Development of prototypes, Focus image processing, Skills: Keras, TensorFlow, PyTorch, Machine Learning, Computer Vision, Python, OpenCV, NLP, C/C++, Cuda, Protobuf, Docker.
- 11/2009–03/2011 **Computer Vision Software Engineer**, *Zeno Track, Vienna, Austria*, Self-contained development work, Development of prototypes, Focus image processing, Skills: Machine Learning, Computer Vision, Python, C/C++, OCR, OpenCV, Cuda.
- 10/2008–09/2009 **Machine Vision Engineer**, *Hermos AG, Mistelgau, Germany*, Project work for various customers, Focus machine vision, Skills: Machine Learning, Computer Vision, C#, Python.
- 02/2004–10/2008 **Research Assistant**, *Vienna University of Technology, Austria*, R&D and development of PoC, Skills: Machine Learning, Computer Vision, Python, Matlab.

01/2002–09/2004	<b>Front-End Developer</b> , <i>Tellioglu KG, Freelance, Vienna</i> , Development of custom websites, Skills: Front-end, PHP, HTML, JavaScript, SQL.
09/2000–03/2003	<b>Front-End Developer</b> , <i>Ministry of Labour, Social Affairs and Family, Bratislava, Slovakia</i> , Development and maintenance of public website, Skills: Front-end, PHP, JavaScript, HTML, SQL.

## Awards, Honours and Scholarships

- 2011 The “Fred Margulies Preis” awarded for Ph.D. thesis
- 2010 Ph.D. with honours
- 2004 The Dean’s Honorable Mention for the excellent elaboration of M.Sc. thesis
- 2003 Scholarship “Aktion Österreich - Slowakei”

## Professional Activities

- Scientific visit 2007, Short-term, Dr. Andrew Davison, Imperial College London, London, UK
- Scientific visit 2005, Short-term, Prof. Josep Tornero, University of Valencia, Valencia, Spain
- Reviews IEEE Transactions on Robotics 2011, IEEE/RSJ International Conference on Intelligent Robots and Systems 2011, IEEE International Conference on Robotics and Automation 2010-2013, International Journal of Robotics Research 2010, Sensors 2012-2016

## References

- Matej Mihalech, CEO Touch4IT, IT-Company, 60 employees  
 Prof. Dr. Andrew Davison, Imperial College London, London, UK, ajd@doc.ic.ac.uk.

## Languages

German	<b>fluent</b>	<i>Zentrale Mittelstufeprüfung (Goethe-Institut in Bratislava) 05.02.2003</i>
English	<b>fluent</b>	
Slovak	<b>mother tongue</b>	

## Skills

Machine Learning	Supervised, Unsupervised, Clustering	Soft skills	Analytical skills, reliable, team work, positive attitude, goal driven
Deep Learning	CNNs, RL, LLM, RNNs, NLP	Deployment	Terraform, Gitlab, CI/CD, Docker
Deep Learning	Tensorflow, PyTorch, Keras, Sage-Maker	AWS	CloudFormation, Gateway, Lambda
Databases	SQL, DynamoDB, Aurora, MongoDB	Programming	Python, C/C++, PHP, JavaScript
Management	Confluence, Jira, Scrum	Others	OCR, ROS, OpenCV, Flask