

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**, *Ciuvo, 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 **Front-End Developer**, *Tellioglu KG, Freelance, Vienna*, Development of custom websites, Skills: Front-end, PHP, HTML, JavaScript, SQL.
- 09/2000–03/2003 **Front-End Developer**, *Ministry of Labour, Social Affairs and Family, Bratislava, Slovakia*, 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	fluent	<i>Zentrale Mittelstufeprüfung (Goethe-Institut in Bratislava) 05.02.2003</i>
English	fluent	
Slovak	mother tongue	

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, SageMaker	AWS	CloudFormation, Gateway, Lambda
Databases	SQL, DynamoDB, Aurora, MongoDB	Programming	Python, C/C++, PHP, JavaScript
Management	Confluence, Jira, Scrum	Others	OCR, ROS, OpenCV, Flask

Vienna, Austria, 9.4.2025