

# 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

- 12/2023 HashiCorp Certified Terraform Associate
- 10/2023 AWS Certified Solution Architect Associate
- 10/2023 AWS Certified Cloud Practitioner

### Professional Experience

- 01/2020–today **AWS Cloud Engineer**, *VisualSearch, Freelance, Remote*, Deployment of automation tools, setting up infrastructure, Skills: AWS, Python, Terraform, CloudFormation, API Gateway, CI/CD, Docker, SQL, DynamoDB, Gitlab.
- 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 Quarkus, CI/CD, Docker, Gitlab, Grafana, Prometheus.
- 02/2023–08/2023 **Software Developer/Solution Architect**, *Target-Technologie, Freelance, Remote*, Software and algorithmic development, Skills: AWS, CI/CD, Java Spring, Scala, Python, OpenCV, SQL, Docker.
- 01/2022–08/2022 **Senior Computer Vision Engineer**, *Touch4IT, Freelance, Remote*, R&D prototype of face tracking App, Skills: Unity, Keras, TensorFlow, Python, OpenCV, Deep Learning.
- 01/2021–06/2022 **Senior Data Scientist**, *Pricemania, Freelance, Remote*, Developing solution to automate internal process, Skills: AWS, REST-API, Machine Learning, NLP, Python, SQL.
- 01/2020–09/2020 **Senior Computer Vision Engineer/Solution Architect**, *Ciuvo, Freelance, Remote*, Design, development and deployment of Computer Vision solution, Skills: AWS, REST-API, Object Recognition, Python.
- 01/2019–12/2020 **Senior Data Scientist**, *VisualSearch, Freelance, Remote*, Development of innovative e-shop plugins, Skills: Keras, TensorFlow, Python, REST-API, MySQL, Git.
- 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, Machine Learning, Computer Vision, Python, OpenCV, OCR, NLP, C/C++, Cuda, Docker.
- 11/2009–03/2011 **Computer Vision Software Engineer**, *Zeno Track GmbH, 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, 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.
- 09/2000–03/2003 **Software Developer**, *Ministry of Labour, Social Affairs and Family, Bratislava, Slovakia and other companies*, Website, Back-end.

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## 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"

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## Professional Activities

- Scientific visit 2007, Shot-term, Dr. Andrew Davison, Imperial College London, London, UK
- Scientific visit 2005, Shot-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

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## Selected Publications

- P. Gemeiner, B. Micusik and R. Pflugfelder. Calibration Methodology for Distant Surveillance Cameras. Workshop on Visual Surveillance and Re-Identification, 13th European Conference on Computer Vision, September 2014.
- P. Gemeiner, A. J. Davison, and M. Vincze. Improving localization robustness in monocular SLAM using a high-speed camera. In Robotics Science and Systems, June 2008.

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## References

- Matej Mihalech, CEO Touch4IT, IT-Company, 60 employees
- Michal Kral, E-Commerce consultant
- Prof. Dr. Andrew Davison, Imperial College London, London, UK, [ajd@doc.ic.ac.uk](mailto:ajd@doc.ic.ac.uk).

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## Languages

- German **fluent** *Zentrale Mittelstufeprüfung (Goethe-Institut in Bratislava) 05.02.2003*
- English **fluent**
- Slovak **fluent**

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## Skills

Machine Learning	Supervised, Unsupervised, Clustering	Soft skills	Analytical skills, reliable, team work, positive attitude, goal driven
Deep Learning	CNNs, Reinforcement Learning, RNNs	Deployment	Terraform, Gitlab, CI/CD, Docker
Deep Learning	Tensorflow, Keras, SageMaker	AWS	CloudFormation, Gateway, Lambda
Databases	SQL, DynamoDB, Aurora, MongoDB	Programming	Python, C/C++, Java, PHP, Cuda
Management	Confluence, Jira, Scrum	Others	Bash, ROS, OpenCV, Flask

Vienna, Austria, 14.5.2024