



Andres Becker

IT, Machine Learning & Cyber Security

WORK EXPERIENCE

CONTACT

📍 München / Deutschland

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andres-becker

🐙 andresbecker.github.io

SKILLS

Programming:

C/C++, Python, MATLAB,
AWK, Bash, VBA, API,
CI/CD (GIT).

Machine Learning:

TensorFlow/Keras,
PyTorch, GYM, Pandas
Scikit-learn, Seaborn.

Statistics:

R, IBM SPSS.

Database Managers:

PostgreSQL, MySQL,
SQL Server.

Miscellaneous:

Linux, Networking, \LaTeX
Windows Server, MS Office,
SCRUM, Atlassian.

LANGUAGES

Spanish: Native

English: C1

German: A2.1

- **PAYBACK** / Big Data System Engineer 08.2021 - current
Expansion, operation and optimization of the IT infrastructure for
BigData environments.
*Tools: MapR/Hadoop, Hive, Spark, OpenShift/Kubernetes, HELM,
Docker/Podman, Ansible, Puppet, Python, Bash, RHEL, CI/CD (GIT),
Grafana, Rundeck, SCRUM.* Germany
- **ICB - Helmholtz Zentrum München** / Master Thesis Student 11.2020 - 04.2021
Project: Predicting Transcription Rate from Multiplexed Protein
Maps using Deep Learning.
*Tools: Python, TensorFlow/Keras, TFDS, GIT, Pandas, Seaborn,
Scikit-learn, Slurm, Ubuntu/Centos, Bash, CUDA/GPU, LaTeX.* Germany
- **MaibornWolff GmbH** / Project Student 04.2020 - 07.2020
TUM - Data Innovation Lab. Project: Multi-Agent Reinforcement
Learning for Logistics.
Tools: Python, PyTorch, Gym, GitLab, Bash. Germany
- **AIRBUS Defence and Space** / Research Intern 08.2019 - 02.2020
Trajectory optimization for multiple autonomous Unmanned Aerial
Vehicles, statistical analysis and Cloud computing.
*Tools: MATLAB, fmincon, RedHat OpenStack, Docker, Bitbucket, R,
Python, Pandas, Seaborn, LaTeX, Jira & Confluence, Bash.* Germany
- **Bank of Mexico (Banxico)** / Cyber Security Analyst 12.2016 - 08.2018
Operation, hardening, monitoring and pentest of the Electronic
Payment Systems Linux infrastructure and DBMS.
*Tools: RHEL 6 & 7, LDAP/PAM, RSyslog/Audit, PostgreSQL, Nessus,
WAZUH/OSSEC, Splunk, Checkmarx, Python, Bash, Firewall.* Mexico
- **DCyC - IPN** / Intern 05.2014 - 12.2014
Data mining and statistical analysis of Cyber Security incidents.
Tools: IBM SPSS, CentOS 5, Python, AWK, Bash, LaTeX. Mexico
- **Clabeck** / Systems Administrator 06.2009 - 12.2016
Administration of IT resources: network, VoIP, databases, Windows
and Linux servers, workstations, etc.
*Tools: Windows Server 2003 & 2008, Ubuntu Server, Cisco iOS,
VPN/IPsec, SQUID, MySQL, SQL Server 2008, Python.* Mexico

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EDUCATION

Technische Universität München <i>MSc. Mathematics</i> Dissertation: Predicting Transcription Rate from Multiplexed Protein Maps using Deep Learning.	10.2018 - 04.2021 Germany
Instituto Politécnico Nacional <i>BSc. Physics and Mathematics</i> Dissertation: The NSGA-II algorithm and its hybridization with a gradient based method.	08.2008 - 06.2014 Mexico

COURSES & WORKSHOPS

Intro to TensorFlow for Deep Learning / Udacity 25 hours.	2021
BigData in Payments / ITESM 60 hours.	2017
Red Hat System Administration I / RedHat Academy 45 hours.	2017
VBA in Excel Workshop / Instituto Politécnico Nacional 25 hours.	2015
SQL Server Workshop / Instituto Politécnico Nacional 25 hours.	2015
Connecting LAN & WAN Networks / CIC - IPN 200 hours.	2011