



# Andres Becker

## WORK EXPERIENCE

## CONTACT

📍 München / Deutschland

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in linkedin.com/in/  
andres-becker

🐙 andresbecker.github.io

## SKILLS

### Programming:

C/C++, Python, MATLAB,  
AWK, Bash, VBA.

### Machine Learning:

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

### Statistics:

R, IBM SPSS.

### Database Managers:

PostgreSQL, MySQL,  
SQL Server.

### Miscellaneous:

Linux, Networking,  $\text{\LaTeX}$   
Windows Server, MS Office.

## LANGUAGES

**Spanish:** Native

**English:** B2. IELTS, 2017

**German:** A2.1

- **PAYBACK** / Big Data System Engineer 08.2021 - current  
Expansion, operation and optimization of the IT infrastructure for BigData environments.  
*Tools: Hadoop, Hive, Kafka, Ansible, Puppet, Grafana, Docker, GIT, Python, Bash, RHEL, 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, Linux/Bash, CUDA/GPU.* Germany
- **MaibornWolff GmbH** / Project Student 04.2020 - 07.2020  
TUM - Data Innovation Lab. Project: Multi-Agent Reinforcement Learning for Logistics.  
*Tools: Python, PyTorch, Gym, Git, Bash scripting.* Germany
- **AIRBUS Defence and Space** / Intern 08.2019 - 02.2020  
Trajectory optimization for multiple autonomous Unmanned Aerial Vehicles, statistical analysis and Cloud computing.  
*Tools: MATLAB, fmincon, RedHat OpenStack, Docker, Git, Python, Pandas, Seaborn, R, LaTeX, Jira & Confluence, Bash scripting.* Germany
- **Bank of Mexico (Banxico)** / Cyber Security Analyst 12.2016 - 08.2018  
Administration, hardening, monitoring and pentest of Linux infrastructure and DBMS at the electronic payments systems department.  
*Tools: RHEL 6 & 7, LDAP/PAM, RSyslog/Audit, PostgreSQL, Nessus, WAZUH/OSSEC, Splunk, Checkmarx, Python, Bash script, 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 scripting, 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

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

COURSES & WORKSHOPS

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