Andres Becker

IT, Machine Learning & Cyber Security

CONTACT

München / Deutschland

+49 15 206 019 165

aabecksa@gmail.com

linkedin.com/in/
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, GCP
Windows Server, MS Office,
SCRUM, Atlassian, LaTeX.

LANGUAGES

Spanish: Native
English: C1
German: A2.1

WORK EXPERIENCE

PAYBACK / Big Data System Engineer — 08.2021 - current, Germany
Expansion, operation, automation and optimization of the BigData infrastructure. Migration of BigData infrastructure to the cloud.
Tools: MapR/Hadoop, Hive, Spark, OpenShift/Kubernetes, HELM, Docker/Podman, Ansible, Puppet, Python, GCP, Bash, RHEL, CI/CD (GIT), Grafana, Rundeck, SCRUM.

ICB - Helmholtz Zentrum München / Master Thesis Student — 11.2020 - 04.2021, Germany
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.

MaibornWolff GmbH / Project Student — 04.2020 - 07.2020, Germany
TUM - Data Innovation Lab. Project: Multi-Agent Reinforcement Learning for Logistics.
Tools: Python, PyTorch, Gym, GitLab, Bash.

AIRBUS Defence and Space / Research Intern — 08.2019 - 02.2020, Germany
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.

Bank of Mexico (Banxico) / Cyber Security Analyst — 12.2016 - 08.2018, Mexico
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.

DCyC - IPN / Intern — 05.2014 - 12.2014, Mexico
Data mining and statistical analysis of Cyber Security incidents.
Tools: IBM SPSS, CentOS 5, Python, AWK, Bash, LaTeX.

Clabeck / Systems Administrator — 06.2009 - 12.2016, Mexico
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.

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EDUCATION

Technische Universität München   10.2018 - 04.2021
MSc. Mathematics   Germany
Dissertation: Predicting Transcription Rate from Multiplexed
Protein Maps using Deep Learning.

Instituto Politécnico Nacional   08.2008 - 06.2014
BSc. Physics and Mathematics   Mexico
Dissertation: The NSGA-II algorithm and its hybridization with a
gradient based method.

COURSES & WORKSHOPS

Google Cloud Certified Associate Cloud Engineer / Pluralsight   2022
24 hrs

Intro to TensorFlow for Deep Learning / Udacity   2021
25 hrs

BigData in Payments / ITESM   2017
60 hrs

Red Hat System Administration I / RedHat Academy   2017
45 hrs

VBA in Excel Workshop / Instituto Politécnico Nacional   2015
25 hrs

SQL Server Workshop / Instituto Politécnico Nacional   2015
25 hrs

Connecting LAN & WAN Networks / CIC - IPN   2011
200 hrs