



## Senior Softwareentwickler | Python & Cloud

Vicente Paul Guerrero Lule

Mannsfelder Str. 1 – 50968 – Köln

[vicenteGuerrero.tech](https://vicenteGuerrero.tech) | vic.lule@gmail.com | (+49) 176 32715017

Production-Grade Softwareentwicklung und Cloud.

python, javascript, rust, kubernetes, gitlab, docker, redis, ci/cd,

terraform, pyspark, kafka, scrum, safe, sql, nosql

### Profil

Zertifizierter Cloud-Entwickler mit langjähriger Erfahrung in der Entwicklung von Backend-Software und Daten-basierten Anwendungen. Sieben Jahre Erfahrung in der Python-Sprache für die Entwicklung und Bereitstellung von Microservices, APIs und ML-Modelle in der Cloud.

TDD, Scrum und Solution-Oriented beschreiben meine Arbeitsweise. [Mensa.org](https://Mensa.org) Mitglieder.

### Zertifizierungen

08/2024 [CKAD: Certified Kubernetes Application Developer](#)

02/2024 [AWS Certified DevOps Engineer – Professional](#)

07/2023 [AWS Certified Developer Associate](#)

06/2018 – 08/2018 [ML - Deep Learning Specialization - Coursera](#)

12/2016 Foundation in agile project management SCRUM

### Technologien, Tools und Frameworks

Python	FastAPI, Django, Flask, pandas, poetry, pytest, black, pylint, mypy, twine, kedro
Datenbanken	MySQL, Postgres, AWS RDS, AWS DynamoDB, Redshift, Databricks
AWS	ETL Pipelines, Lambda, EC2, ECS, SQS, SNS, Glue, CloudWatch, X-Ray, CI/CD CodePipeline, CloudFormation, CDK, etc
Kollaboration	Agile, Scrum, SAFe, Jira
CI/CD	Gitlab, Github Actions, AWS CodePipeline/CodeBuild/CodeDeploy
-----	Docker, Kubernetes, Bash, GoLang, Rust, Kafka, Pyspark, Terraform

### Berufliche Qualifikationen

**Referenzschreiben finden Sie auf den Seiten 6–11**

9/2016 – **Softwareentwickler (Freiberuflich)**

Big Data - ETL Pipelines @ **Telekom Aussendienst – Innovation Abteilung**

04/2024-

- ❖ Entwicklung und Deployment von ETL Pipelines mittels Python
- ❖ Automatisierung, monitoring und automatisches Testing
- ❖ CI/CD-pipelines in gitlab
- ❖ Datenbank Modellierung

python, sql, kedro, pandas, gitlab, powershell

AWS DevOps @ *Beratungsunternehmen (NDA)*

10/2023-01/2024

- ❖ AWS IAM, AWS Organizations, AWS Infrastruktur (VPC, ALB, ASG, Route53)
- ❖ CI/CD-pipelines in GitHub actions
- ❖ IaC in terraform und CDK

aws, cdk, github actions, terraform, docker, python, typescript, bash, ci/cd

Data Driven Software-Entwicklung @ **Telekom Innovation Hub** – *Special Integration*

2/2022-6/2023

- ❖ Entwicklung eines Voice Assistants.
- ❖ Tech Lead eines Teams, das Integrationen zwischen Backend-Systemen entwickelt.
- ❖ Microservices (docker&k8s)-Entwicklung auf Python und Rust, diese sind Teil eines komplexen Systems, das natürliche Sprache interpretiert
- ❖ Async, Multi Threading/Processing REST-API-Entwicklung in Python (Django und FastAPI)
- ❖ Async WebSocket-Entwicklung in Python
- ❖ Asynchrone Verarbeitung mit Message Queues in Redis
- ❖ Entwicklung und Optimierung von komplexe Python Packages mit Rust bindings
- ❖ CI/CD-Pipelines in Gitlab, Überwachung von Anwendungen, IaC in terraform, k8s
- ❖ Unterstützung von ML-Teams bei der Entwicklung und Bereitstellung von Modellen
- ❖ Entwicklung von Algorithmen in Python und Rust.

python, rust, kubernetes, docker, redis, azure, gitlab, ci/cd, terraform, scrum, sql

Software-Entwicklung in Azure @ **Telekom Innovation Hub** – *Telefonie und Voicemail*

5/2019 – 1/2022

- ❖ Integration von Telefonie und Voicemail in einen Voice Assistant
- ❖ Microservices (docker&k8s)-Entwicklung auf Python und Rust, diese sind Teil eines komplexen Systems, das natürliche Sprache interpretiert
- ❖ REST-API-Entwicklung in Python (Django und FastAPI)
- ❖ CI/CD-Pipelines in Gitlab, Überwachung von Anwendungen, IaC in terraform, k8s
- ❖ Entwicklung von Algorithmen in Python

python, numpy, pandas, kubernetes, docker, azure, gitlab, ci/cd, terraform, scrum, sql

Software und ML-Entwicklung in AWS @ **Atlas Copco** – *Intelligent-Products-Team*

6/2017 – 5/2019

- ❖ Design und Entwicklung einer Cloud-basierten Data Collection Strategie
- ❖ Entwicklung von Machine-Learning-Modellen
  - Linear Models, Neural Networks, Clustering Algorithms
- ❖ Entwicklung von REST APIs in Python (Django)
- ❖ ETL-Softwareentwicklung in AWS
- ❖ Datenbank-Design und Implementierung
- ❖ Bereitstellung von APIs und Datenbanken auf AWS

python, jupyter, pandas, numpy, sklearn, tensorflow, keras, django, git, aws, sql

Entwicklung einer Web-App @ *Eigenes Projekt* - [readperword.com](https://readperword.com)

2022, 2023

- ❖ Frontend erstellt mit React und Next.js
- ❖ Backend basierend auf Google Firebase
- ❖ Gehostet in Vercel

javascript, firebase, react, vercel, github

Entwicklung von Software und bildverarbeitungsbasierten Automatisierungsanwendungen  
9/2016 –5/2017

- ❖ Integration von Industriekameras und Entwicklung von Bildverarbeitungsskripten für Automatisierungsanwendungen  
MVTec Halcon, Beckhoff
- ❖ Integration von Industriekameras und Bildverarbeitungssoftware in C#-Anwendungen  
MVTec Halcon, C#, verschiedene Kamerahersteller

1/2013 – **Produkt-/Softwareentwickler**

8/2016 *Micro Automation*, St. Leon-Rot

- ❖ Kooperation mit Forschungseinrichtungen
- ❖ Entwicklung von bildverarbeitungsbasierten Automatisierungsanwendungen

11/2010 – **Wissenschaftlicher Mitarbeiter** in Vollzeit in der Abteilung **Mikroproduktion**

12/2012 *Fraunhofer-Institute for Production Technologies*, Aachen

- ❖ Design und Entwicklung von Konzepten für die Hochpräzisionsmontage von optischen Komponenten

09/2009 – **Wissenschaftlicher Mitarbeiter** in Teilzeit im Department of Energy Efficient Buildings and

08/2010 Indoor Climate

*E.ON Energy Research Center, RWTH, Aachen*

- ❖ Softwareentwicklung mit LabView

03/2008 – **Entry engineer** in der Performance-Abteilung

09/2008 *General Electric, Advanced Turbomachinery Engineering Center*, Queretaro, Mexiko

- ❖ Softwareentwicklung für Analysen von thermodynamischen Daten

## Studium

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09/2008 – **Masterstudium Mechatronik** (Abschluss: Master of Science in Mechatronics),  
08/2010 *Fachhochschule Aachen* (1,3)

07/2003 – **Bachelorstudium Maschinenbau** (Abschluss: Mechanical Engineer, Speciality in  
02/2008 Design), *Celaya Technology Institute*, Celaya, Mexiko

## Weitere Erfahrungen

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2022, 2023 Trainings: rust, spark, [kafka](#), AWS Devops, terraform, bash, Airflow

2019, 2022, 2023 PyCon Balkan 2019, PyCon Berlin 2022 und 2023

10/2016, 11/2017 Konferenz: Data Natives 2016 und 2017. Berlin

## Publikationen und Patente

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C. Brecher, R. Schmitt, P. Loosen, V. Guerrero, N. Pyschny, A. Pavim, A. Gatej. Self-optimizing approach for automated laser resonator alignment. Optics and Lasers in Engineering 50 2012, 287-292.

Machine Learning Soft Sensor in Vacuum Pump  
Patent Number: [11988211](#) - Granted

## Sprachkenntnisse

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Spanisch: Muttersprache  
Englisch: Verhandlungssicher in Wort und Schrift  
Deutsch: Verhandlungssicher in Wort und Schrift

## **Persönliche Interessen**

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Sport (Fahrradfahren, Schwimmen, Kitesurf),  
Literatur (Geschichte, Philosophie, Wissenschaft), Reisen  
Mensa.org Mitglieder

Köln, den 10.08.2024

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## Annexe

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- ❖ Empfehlungsschreiben: Telekom Außendienst
- ❖ Empfehlungsschreiben: Telekom
- ❖ Empfehlungsschreiben: Telekom
- ❖ Empfehlungsschreiben: mm1 Consulting GmbH
- ❖ Empfehlungsschreiben: axxessio GmbH
- ❖ Empfehlungsschreiben: Atlas Copco / Leybold
- ❖ Zeugnis: Scrum Foundation

Frank Rebmann  
Innovation & Data Analytics  
Deutsche Telekom Außendienst GmbH  
Mecklenburgring 25  
66121 Saarbrücken

Telefon:  
Email:

Nach Absprache.

Datum: 25.07.2024

Sehr geehrte Damen und Herren,

ich freue mich, eine Referenz für Vicente Paul Guerrero Lule abzugeben, der im Jahr 2024 als freiberuflicher Senior Softwareentwickler an einem Innovationsprojekt bei uns gearbeitet hat.

Während seiner Tätigkeit bei uns hat Vicente durchgehend außergewöhnliche technische Expertise und ein tiefes Verständnis für Softwareentwicklungsprinzipien gezeigt. Seine Beiträge waren entscheidend für das Vorantreiben unserer Projektziele, insbesondere in Bereichen, die innovative Lösungen und datenbasierte Anwendungen erfordern.

Zu den Hauptverantwortlichkeiten von Vicente gehörten:

- Entwurf und Implementierung neuer Funktionen für komplexe, datenbasierte Softwaresysteme mit Schwerpunkt auf Skalierbarkeit und Flexibilität.
- Zusammenarbeit mit funktionsübergreifenden Teams zur Integration neuer Funktionen und Verbesserungen.
- Effiziente Identifizierung und Lösung technischer Probleme, um sicherzustellen, dass die Projektzeitpläne eingehalten werden.
- Durchführung von Code-Reviews und enge Zusammenarbeit mit Data-Scientists.
- Entwicklung von CI/CD-Pipelines und Skripten zur Verbesserung der Codequalität und Systemstabilität.

Ein herausragendes Merkmal der Arbeit von Vicente ist seine Fähigkeit, sich schnell an neue Technologien und Methoden anzupassen. Sein proaktiver Ansatz und seine Problemlösungsfähigkeiten haben den Erfolg unseres Projekts maßgeblich beeinflusst. Darüber hinaus haben seine ausgezeichneten Kommunikationsfähigkeiten eine nahtlose Zusammenarbeit zwischen den Teammitgliedern ermöglicht, was ihn zu einem wertvollen Mitglied unseres Teams macht.

Ich bin überzeugt, dass Vicente eine Bereicherung für jedes Unternehmen sein wird, dem er sich anschließt. Seine technische Kompetenz, sein Engagement und sein kooperativer Geist machen ihn zu einem hoch empfohlenen Fachmann im Bereich der Softwareentwicklung.

Bitte zögern Sie nicht, mich zu kontaktieren, falls Sie weitere Informationen benötigen.

Mit freundlichen Grüßen,

Frank Rebmann

*Frank Rebmann*



ERLEBEN, WAS VERBINDET.

**DTAG, P&I, INNOVATION HUB**

T-Online-Allee 1, 64295 Darmstadt, Germany

axxessio GmbH  
Kurfürstenallee 5  
53177 Bonn

**WE ARE:** DTAG, GHS, TECHNOLOGY & INNOVATION / Innovation HUB  
**YOUR CONTACT:** Nicolas Walter Stepanek  
**TEL. NUMBER:** Nach Absprache.  
**DATE:**  
**SUBJECT:** Confirmation of Excellence - Successful project with Mr Vicente Paul Guerrero Lule

Dear Sirs,

We are pleased to confirm that we worked together with Mr Vicente Paul Guerrero Lule (Axxessio GmbH) in 2020/2021 to provide voicified communication services like voicemail or telephony on a smart speaker.

During our project with Mr Guerrero Lule we were delighted by his support. Our customers and we are very happy that he has delivered in budget, time and quality. During our project we found him to be extremely helpful, committed to the task, intelligent and able to work hard. He has proved to be a very good colleague in our team, the kind of person who not just starts a project but always completes them.

We are confident that the experience and knowledge gained by Mr Guerrero Lule in our international project will be for his further benefit.

We would like to thank Mr Vicente Paul Guerrero Lule personally for his work and wish him all the best for the future. We are looking forward to continue our partnership with Axxessio GmbH.

On behalf of

Nicolas W. Stepanek  
Senior Manager Technical Innovation / Product Owner Voicified Communication  
Product Management Chapter

**LEGAL ENTITY**

Deutsche Telekom AG, GHS

Authorized representatives:

Timotheus Höttges Reinhard Clemens Niek Jan van Damme Thomas Dannenfeldt Dr. Christian P. Illek Dr. Thomas Kremer Claudia Nemat  
FriedrichEbertAllee 140  
53113 Bonn, Germany District Court of Bonn HRB 6794  
Registered Office Bonn VAT ID No. DE 123475223

Oliver Fladda  
Lead Software Architect Magenta Voice Products  
Deutsche Telekom AG

Nach  
Absprache

@telekom.de

**Subject: Successful project with Mr. Vicente Paul Guerrero Lule**

Dear Sir or Madam,

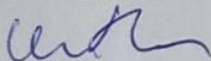
I am pleased to recommend Vicente Paul Guerrero Lule as a skilled software engineer who collaborated with me on the Magenta Voice assistant project at Deutsche Telekom.

He has displayed a keen interest and knowledge in natural language processing, a strong passion and expertise in algorithms and backend development, as well as commitment to achieve great results with a proactive attitude.

Vicente has also shown very good communication skills within his team and with others across the organization. He was able to document and organize his work well and present it in a clear way to the rest of the team members.

I would like to express my gratitude to Vicente for his work and wish him all the best for the future. Vicente was contracted as a freelancer with the support of our very valuable partner Axxessio GmbH.

Kind regards,



Oliver Fladda  
2023-06-05



Maike Saager  
Manager  
mm1 Consulting GmbH

Nach Absprache.

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**Subject: Successful project with Mr Vicente Paul Guerrero Lule**

Dear Sir or Madam,

I am writing this letter to highly recommend Mr Vicente Paul Guerrero Lule as very talented Software Engineer. Having had the privilege of working closely with Vicente for over 2 years, I can attest to his exceptional skills, extensive experience, and outstanding work ethic.

As a senior software engineer in the Special Integration Team of the Magenta Voice Program of Deutsche Telekom, Vicente consistently demonstrated a deep understanding of complex technical concepts, a passion for problem-solving, and a dedication to delivering high-quality software solutions. His ability to analyze intricate challenges and devise innovative solutions is truly remarkable. Throughout his tenure, Vicente has consistently delivered projects on time and within budget, exceeding expectations and ensuring client satisfaction.

Vicente has excellent communication skills, enabling him to effectively convey technical information to both technical and non-technical stakeholders. Their ability to articulate complex concepts in a clear and concise manner has been instrumental in achieving successful project outcomes.

Beyond his technical expertise, Vicente is a team player with a positive attitude and a strong work ethic. He consistently collaborates with colleagues to achieve common goals and is always willing to go the extra mile to ensure project success. Their professionalism, reliability, and ability to thrive in fast-paced environments make him an invaluable asset to any team.

In summary, I have no doubt that Vicente would be an exceptional addition to any future team. His exceptional technical skills in the backend and algorithm development, leadership abilities, and commitment to delivering outstanding results make him a standout candidate for your position. I would like to thank Vicente for his work and wish him all the best for the future. Vicente was contracted as a freelancer with the support of our very valuable partner Axxessio GmbH.

Should you require any further information or wish to discuss Vicente's qualifications in more detail, please do not hesitate to contact me at

Nach Absprache.

Nach Absprache.

Kind regards  
Maike Saager



05.06.2023

# Letter of Recommendation for Vicente Guerrero

June 7th, 2023

Opinions are my own and may not reflect the opinions and/or beliefs of my current employer.

To whom it may concern,

I am writing this letter to highly recommend my colleague, Vicente Guerrero, for any software development positions.

As a software developer, Vicente possesses extensive expertise in various programming languages, particularly in Python. His technical and problem-solving abilities have been invaluable to our team and have contributed significantly to the success of our projects. Whether faced with complex challenges or tight deadlines, Vicente consistently delivered high-quality solutions. His thoughtful and well-reasoned approach to technical decision-making has not only enhanced the performance and stability of our software but has also positively impacted our overall development process.

Vicente is highly invested in the success of the products he works on. He consistently goes above and beyond in his efforts to improve our applications. His willingness to explore innovative ideas have been instrumental in driving our team's success.

Moreover, Vicente has also been an invaluable asset in supporting architectural decisions within our projects. His input and collaboration with the team have been always appreciated, and his insights have contributed to creating robust and scalable software systems.

On a personal level, I have found Vicente to be a pleasure to work with. His positive attitude, strong work ethic, and excellent communication skills make him an exceptional team player. He is always willing to share his knowledge and support his colleagues, fostering a collaborative and productive work environment. Vicente consistently demonstrates professionalism, integrity, and a genuine passion for software development.

Sincerely,

Fynn Mazurkiewicz



Lead Software Developer, axxessio GmbH

Joeri Coeckelbergs  
Manager Intelligent Product  
Atlas Copco Industrial Vacuum Division

[jcoeckel@leybold.com](mailto:jcoeckel@leybold.com)  
02

Nach  
Absprache.

Dear Sir or Madam,

It's my pleasure to recommend Vicente Guerrero as a solid software engineer with keen interest and knowledge in machine learning topics.

Vicente has worked in my team for nearly 2 years as an external consultant. Together we have worked on several projects, but he was mainly focusing on machine learning and AI topics within the team. During this time I can say, I was able to get to know him quite well. Strong determination to achieve results, a hands-on approach and a very likeable social character would describe him very well.

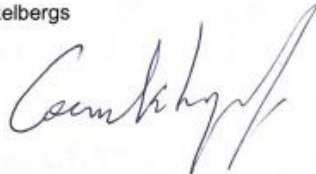
Vicente has shown good software engineering work together with project managing skills. During this project his core task was developing a machine learned algorithm to predict certain variables in our machinery. The work he performed was well documented, well-structured and he thoroughly analyzed the problem before starting with the development of the algorithm. This enables him to learn new skills quite fast.

He also had to manage many other stakeholders, including lab personnel or suppliers. With his good people/social skills and a good joke here and there, this has proven to be no problem for Vicente. He will manage to get things done.

With his good project approach, social skills and a good drive to achieve results, I believe Vicente could really become a key asset for everyone looking for a good software engineer for machine learning and AI topics. If you have any more questions or if you would like to have a chat about Vicente, please feel free to contact me

Kind regards,

Joeri Coeckelbergs



10/04/2019



Akademie



# ZERTIFIKAT

Die TÜV SÜD Akademie bescheinigt, dass

**Vicente Paul Guerrero Lule**

geboren am 02.11.1985 in Celaya, Mexiko  
an der Prüfung

**Foundation in agile project management  
according to SCRUM**

nach den Anforderungen der TÜV SÜD Akademie GmbH – Zertifizierungsstelle für  
Personal, mit Erfolg teilgenommen hat.

Das Zertifikat „Foundation in agile project management according to SCRUM“ nach  
Richtlinien der ITEMO weist Kenntnisse in agilem Projektmanagement nach. Dem  
Zertifikat liegt das Verständnis für die SCRUM-Theorie (gemäß SCRUM Guide™)  
zugrunde. Es bestätigt grundlegendes Wissen zur SCRUM-Philosophie, den  
Ereignissen, Regeln, Rollen, Artefakten und ihren Beziehungen und Wechselwirkungen  
sowie zur Durchführung von SCRUM-Projekten. Eine Vertiefung des Erlernten durch  
praktische Übungen hat stattgefunden.

Zertifikatsnummer 1612#312602637

Köln, 30.12.2016

Jürgen Merz  
Geschäftsführer  
TÜV SÜD Akademie GmbH

Harald Koelln  
Prüfungsmanagement  
der TÜV SÜD Akademie GmbH