



Software Developer

Vicente Paul Guerrero Lule

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Software Development, Machine Learning and Data Science.
python, java, kotlin, aws, gitlab, docker, ci/cd, scrum, safe

Profile

A science enthusiast with extensive experience in model, algorithm and software development. Eight years of experience, the last half of them focusing on python and java languages for microservices and machine learning development, and deployment in the cloud. TDD, scrum and solution-oriented describe my way of working. Equally effective in a team environment or as a lone specialist.

Work Experience

- | | |
|-------------------|--|
| 5/2019 – | Freelance Software Developer <i>Germany</i> <ul style="list-style-type: none">❖ Python/Java/Kotlin Software development in the “Hello, Magenta” voice assistant project from Deutsche Telekom. (see page 4) python, java, kotlin, NLP, microservices, gitlab, scrum, safe, ci/cd |
| 6/2017 – 5/2019 | Software Engineer – in the Intelligent Products team <i>Leybold GmbH, Cologne</i> <ul style="list-style-type: none">❖ Design and development of a cloud-based data collection strategy from machines in the field and laboratories❖ Machine learning models development and clustering analysis❖ API development and documenting python, pandas, numpy, sklearn, tensorflow, keras, flask, django, git, aws |
| 9/2016 – 5/2017 | Freelance Software Developer <i>Germany</i> <ul style="list-style-type: none">❖ Software Development❖ Development of Machine Vision applications C#, MVTec Halcon |
| 1/2013 – 8/2016 | Product Developer – Micro Assembly <i>Micro Automation, St. Leon-Rot</i> <ul style="list-style-type: none">❖ Coordination with research institutions❖ Design and development of a software architecture for complex automation processes |
| 11/2010 – 12/2012 | Research Assistant in the Micro Production department <i>Fraunhofer-Institute for Production Technologies, Aachen</i> <ul style="list-style-type: none">❖ Design and development of novel concepts for the high precision assembly of optical components❖ Development of image-processing-based algorithms |
| 09/2009 - 08/2010 | Research Assistant (part time) in the Energy Efficient Buildings and Indoor Climate department <i>E.ON Energy Research Center, RWTH, Aachen</i> <ul style="list-style-type: none">❖ Development of control software for research setups |

03/2008 – 09/2008 **Entry engineer** in the **Performance** department
General Electric, Advanced Turbomachinery Engineering Center,
Queretaro, Mexico
❖ Software development for the analysis of thermodynamic data

Education

09/2008 – 08/2010 **Master of Science in Mechatronics**, *Fachhochschule Aachen* (1,3),
Aachen, Germany
07/2003 - 02/2008 **Mechanical Engineer, specialty in Design**, *Celaya Technology Institute*
(1,7), Celaya, Mexico

Other Experiences

10/2019 – 10/2019 PyCon Balkan 2019, Belgrade, Serbia
04/2019 – 04/2019 Training: Moderation, Presentation and Visualization
06/2018 – 08/2018 Deep Learning Specialization - [Coursera](#)
11/2017 – 11/2017 Conference: Data Natives 2017. Data driven technologies
Berlin
09/2016 – 01/2017 Project Management Certification, ATV, Köln
10/2016 – 10/2016 Conference: Data Natives 2016. Data driven technologies
Workshop: Learn Python for Data Analysis
Berlin

Publications

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.

Language Skills

Spanish: Native speaker
English: Business fluent
German: Fluent

Programming Languages / Tools

Very good: python, java, kotlin, jupyter notebooks, gitlab, docker, kubernetes, gira
Good: .NET (C#), SQL, AWS

Interests

Sports (cycling, swimming, jogging)
Literature (science, history, philosophy); Traveling
Mensa.org Member



Cologne. May 29th 2020

Annexes

- ❖ **Projects description**
- ❖ **Recommendation letter: Atlas Copco / Leybold**
- ❖ **Certificate: Scrum Foundation**
- ❖ **Certificate: Certified Project Manager**

Projects description

Freelance Software Developer
Germany
5/2019 –

- ❖ **Deutsche Telekom.** “Hallo, Magenta” Voice Assistant.
 - ❖ Microservices development on Python, Java and Kotlin, these are part of a complex system that interprets natural language.
 - ❖ Development of a phonetic/fuzzy module/algorithm to help matching ASR transcriptions to the most possible target.
python, java, kotlin, scrum, SAFe, ci/cd, Jira

Software Engineer –
in the **Intelligent Products** team
Leybold GmbH,
Cologne
6/2017 – 5/2019

- ❖ Design and development of a cloud-based data collection strategy.
Data coming from a number of sensors installed in machines connected through an IoT Platform.
 - REST API Development in Python using flask and django
 - Data Model design and Databases implementation
 - Deployment of APIs and Databases to AWS
- ❖ Machine learning models development and clustering analysis
 - Linear Models, Neural Networks, Clustering Algorithms
python, flask, django, scikit-learn, keras, pandas, numpy, git, ci/cd, aws

Freelance Software Developer
Germany
9/2016 – 5/2017

- ❖ Integration of Industrial Cameras and Development of Image Processing Scripts for automation applications
MVTec Halcon, Beckhoff
- ❖ Integration of Industrial cameras and Image Processing Software in C# Applications
MVTec Halcon, C#, different camera vendors

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Atlas Copco Industrial Vacuum Division
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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.

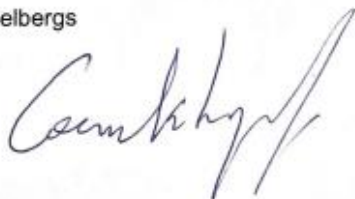
Vicente has shown good software engineering work together with project managing skills. During this project his core task was developing a machine learned algorithm to predict certain variables in our machinery. The work he performed was well documented, well-structured and he thoroughly analyzed the 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



Herr Vicente Paul Guerrero Lule

geboren am 02.11.1985, hat vom 12.09.2016 bis 01.02.2017
im Rahmen des General Management Programs

der ATV GmbH in Köln den Titel

Certified Project Manager

erworben und die Prüfungen
wie folgt bestanden:

Projektmanagement, MS Project:
(Gewichtung 1)

Note 2 / 81 Punkte

BWL, Controlling:
(Gewichtung 1)

Note 1 / 96 Punkte

Projektarbeit:
(Gewichtung 2)

Note 1 / 98 Punkte

Erstellung eines Projekthandbuchs unter Anwendung von MS-Project.
Entwicklung, Dokumentation und Präsentation eines Projektplanes am
realen Praxisbeispiel

Gesamtergebnis:

Note 2 / 93 Punkte

Köln
01.02.2017

Karin Steiner
Niederlassungsleitung
ATV GmbH Köln

100-95 Punkte = 1 • 94-80 Punkte = 2 • 79-65 Punkte = 3 • 64-50 Punkte = 4 • 49-0 Punkte = 5 nicht bestanden



Zertifikatslehrgang in Kooperation mit dem
„Institut für Marketing und Managemententwicklung centour“,
Partner der Hochschule für angewandte Wissenschaften München

ATV GmbH
München | Würzburg | Köln | Leipzig
www.atv-seminare.de



General Management Program

Project Manager

Zertifikatslehrgang der ATV GmbH

in Kooperation mit dem INSTITUT FÜR MARKETING UND MANAGEMENTENTWICKLUNG IMM centour
PARTNER DER HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFT MÜNCHEN

SEMINARINHALTE

Projektmanagement

Grundlegende Rahmenbedingungen und Zielsetzungen des Projektmanagements, Terminologie und Methodik der Projektplanung, projektorientierte Ablaufplanung (Netzplantechnik), Anwendung von MS Project, Ressourcenmanagement, Mehrprojekttechnik, Projektcontrolling und Berichtswesen

Betriebswirtschaftslehre

Projekte aus bilanzieller Sicht, Kosten- und Erfolgsrechnung von Projekten, Bewertungsverfahren langfristiger Projekte, BWL Fallstudie, Business Planning- von der Geschäftsidee zur Umsetzung unter Berücksichtigung von Markt, Chancen und Risiken, Kosten und Finanzierung, Projekte finanzieren, Fundraising, Förderprogramme, Projektanträge

Selbst- und Zeitmanagement

Ziele klar definieren, planen und ein optimiertes Zeitmanagement effizient strukturieren und fristgerecht umsetzen

Marketingmanagement

Marktorientierte Unternehmensführung und strategische Planung, Entwicklung von anwendungsorientierte Unternehmens- und Marketingkonzepten

Rhetorik, Präsentation

Freie Rede, Argumentation, Gesprächsführung und überzeugende Präsentationen, Verhandlungstraining

Persönlichkeitstraining

Teamtraining, Führungstraining, Moderation, persönliche Marketingstrategien

Projektarbeit

Entwicklung und Dokumentation eines praxisbezogenen Projektplans unter Anwendung der Software MS Project, Projektbeschreibung, Ablaufplan, Ressourcenplan, Kostenplan

ATV GmbH
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