Einar Jhordany Serna Valdivia



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Passport: valid / Driver's Licence: valid / Visa: valid

Experience

January 22 – Today	Directorate of Material Resources, General Services and Casdastre of Guanajuato, Guanajuato.	July – December 21	Instituto Tecnológico de León, Guanajuato.
Frontend framev framework, to co Define a data str Redux to mana designed with B Axios was used	Geographic database specialist opper, in charge of creating web applications using React, as the main work, which links with the REST-API made with Python, using Flask onnect a PostgreSQL database. The requirement of the components were tested using Storybook and cotstrap and some custom CSS. It to make the requests between front and back. Anagement through the ORM SQLAIchemy, GeoAlchemy2, for the	and BitBucket sending emails Docker as mai The code was code before a can AWS server	versioned using GIT with GitHub service, using Husky to check the commit, and to achieve the CD/CI using GitHub actions , Travis CI on
data and geospa and the union wkhtmltopdf. • Using Marshma	atial values, as well as create simple reports, watermarked pdf files of them in a single file using PyPDF, reportLab, jinja2, y allow made it easier to manage ORM data and optimize the	framework, link Define a data s Redux to mana designed with	ed with Python using FastAPI framework to handle MySQL database. tructure with TypeScript, efficiently for frontend data handling, using age state, and all the components were tested using Storybook and Material-UI and some custom CSS.
	arrays and JSON. errision and Training for the GitHub service, using Husky to validate do a commit	scheme for the	d to make the requests between front and back, using JWT as security requests. nanagement through the ORM SQLAIchemy , as well as create simple
 For documentation reference based 	ion, Sphinx was used, which creates a static web page for a code on the existing commends in the code.	reports using F using Pandas a	PyPDF, reportLab, jinja2, y wkhtmltopdf, and reading of xlsx files and data writing with numpy.
quarter of the tin	e was optimized with already processes which were reduce to a ne, as well as better information management. eeds of the company, the architecture proposed was client-server services. Kanban	responses. Based on the n	eeds of the clients the architecture used was microservices. were used for communication and task assignment. Scrum, Xtream Programing, Waterfall
March – September 21	American AXLE, Guanajuato.	July – December 18	nstituto Tecnológico Superior de Guanajuato, Guanajuato.
in .Net Framewo procedures. Define a data st creation of sto JavaScript, HTI OOP was consic The waiting time a better informat The code was vo Methodology:	Data analyst support oper, in charge of creating web and desktop applications using C#, ork and Entity Framework to link SQL Server database using stored ructure and its relationships using MS SQL Server, as well as the ored procedures and C# with .Net Framework as Backend, ML, and Bootstrap for frontend. Dered as a programming paradigm on a layer architecture. It with already defined processes were reduced to one-seventh, and tion management. Ersioned using GIT and GitHub service. Scrum International Congress on Software Process Improvement,	and React Na database as se OOP was cons The code was v the web applica For frontend o Bootstrap with Make easy the the results in re Methodology:	idered as a programming paradigm. versioned using GIT and GitHub service with GitHub pages for store ation. design was used JavaScript, Web and Mobile Components and some custom CSS. process of any activity that required consensus, as well to visualize all time. Xtream Programing
October 20	Zacatecas.	April 16	EDUCAFIN León, Guanajuato.
 databases Maria SQLAlchemy Conested queries. Using Google D 	Developer and Tester. charge of creating scripts using Python which links with two aDB and PostgreSQL, stores pdf files with Google Drive API. DRM was used to work with the fields of the databases to perform varive API to store pdf files, as well as to share the link by email using will and CSS templates to be used with jinja2. Xtream Programing, Hybrid Waterfall with ISO/IEC 29110.	and test the co SQL Server da Define a data s to show the dat Using C# with frontend design	tructure and its relationship using SQL Server , and Crystal Reports a into a report. Net Framework as main element to design the backend logic and
Background / Training	Education		Certificates

Maester's Degree in Software Engineering 2020 Introduction to IoT Cyber Security. Center for Research in Mathematics A.C. (CIMAT) 2019 Kanban Systems Design (KMP 1). Professional ID: (Pending) 2018 Google Activate Web Developer II 2019 Instituto Tecnológico Superior de Guanajuato (TecNM Gto) 2019 Professional ID: 12136617 2017 Development with UTP cat 6 and optical fiber. 2017 Development with Python Esset. 2018 OP development with C# Microsoft. 2019 Courses and Participations. 2015 Industrial and Services High School 173 (DGTI) 2020 Secure Dev & Ethical Hacking. 2020 Appreciation and interpretation of ISO/IEC 45001 standard. 2020 Appreciation and interpretation of ISO/IEC 9001:2015 standard. 2019 Appreciation and interpretation of OF Course Polography.		Education		Certificates
Professional ID: (Pending) Computer Systems Engineering Instituto Tecnológico Superior de Guanajuato (TecNM Gto) Professional ID: 12136617 Software Developer Technician 2015 Industrial and Services High School 173 (DGTI) Professional ID: 10449501 Professional ID: 10449501 Professional ID: 10449501 Professional ID: 40149501 Google Activate Web Developer II Google Activate Web Developer II Google Activate Web Developer I Google Activate Web Developer II Google Activate Web Developer I Google Activate Web Developer I Google Activate Web Developer II Info Sec Whitesuite Hacking Wired Networks with UTP cat 6 and optical fiber. Development with Python Esset. OOP development with C# Microsoft. Courses and Participations. International Congress on Software Process Improvement CIMF Courses and Participations. Activated Networks with UTP cat 6 and optical fiber. OOP development with C# Microsoft. Courses and Participations. Activated Networks with UTP cat 6 and optical fiber. OOP development with C# Microsoft. OOP development with C# Microsoft. OOP development with C		Maester's Degree in Software Engineering	2020	Introduction to IoT Cyber Security.
2018 Google Activate Web Developer I. Computer Systems Engineering 2019 Instituto Tecnológico Superior de Guanajuato (TecNM Gto) Professional ID: 12136617 2017 Development with UTP cat 6 and optical fiber. 2017 Development with Python Esset. 2014 OOP development with C# Microsoft. Courses and Participations. Industrial and Services High School 173 (DGTI) Professional ID: 10449501 2020 Secure Dev & Ethical Hacking. 2020 Appreciation and interpretation of ISO/IEC 45001 standard. 2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.	2021	Center for Research in Mathematics A.C. (CIMAT)	2019	Kanban Systems Design (KMP 1).
Computer Systems Engineering Instituto Tecnológico Superior de Guanajuato (TecNM Gto) Professional ID: 12136617 2017 2017 2017 2017 2017 2017 2017 20		Professional ID: (Pending)	2018	Google Activate Web Developer II
2019 Instituto Tecnológico Superior de Guanajuato (TecNM Gto) Professional ID: 12136617 2017 2017 2018 Wired Networks with UTP cat 6 and optical fiber. Development with Python Esset. OOP development with C# Microsoft. Courses and Participations. 2015 Industrial and Services High School 173 (DGTI) Professional ID: 10449501 2020 Secure Dev & Ethical Hacking. Appreciation and interpretation of ISO/IEC 45001 standard. 2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.		, ,	2018	Google Activate Web Developer I.
Professional ID: 12136617 Software Developer Technician 2015 Industrial and Services High School 173 (DGTI) Professional ID: 10449501 2020 Professional ID: 10449501 Software Developer Technician 2021 International Congress on Software Process Improvement CIMF 2020 Secure Dev & Ethical Hacking. 2020 Appreciation and interpretation of ISO/IEC 45001 standard. 2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.		Computer Systems Engineering	2018	Info Sec Whitesuite Hacking.
2014 OOP development with C# Microsoft. Courses and Participations. 1 Industrial and Services High School 173 (DGTI) Professional ID: 10449501 2020 Profess	2019	Instituto Tecnológico Superior de Guanajuato (TecNM Gto)	2018	Wired Networks with UTP cat 6 and optical fiber.
Software Developer Technician 2015 Industrial and Services High School 173 (DGTI) Professional ID: 10449501 2020 Secure Dev & Ethical Hacking. 2020 Appreciation and interpretation of ISO/IEC 45001 standard. 2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.		Professional ID: 12136617	2017	Development with Python Esset.
2015 Industrial and Services High School 173 (DGTI) 2021 International Congress on Software Process Improvement CIMF Secure Dev & Ethical Hacking. 2020 Appreciation and interpretation of ISO/IEC 45001 standard. 2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.			2014	OOP development with C# Microsoft.
Professional ID: 10449501 2020 Secure Dev & Ethical Hacking. 2020 Appreciation and interpretation of ISO/IEC 45001 standard. 2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.		Software Developer Technician		Courses and Participations.
2020 Appreciation and interpretation of ISO/IEC 45001 standard. 2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.	2015	Industrial and Services High School 173 (DGTI)	2021	International Congress on Software Process Improvement CIMP
2019 Appreciation and interpretation of ISO/IEC 9001:2015 standard.		Professional ID: 10449501	2020	Secure Dev & Ethical Hacking.
			2020	Appreciation and interpretation of ISO/IEC 45001 standard.
2017 12 th National Colloquium on Codes and Criptography.			2019	Appreciation and interpretation of ISO/IEC 9001:2015 standard.
			2017	12th National Colloquium on Codes and Criptography.

- Spanish (native language).
 - English (B2).
 - Programming Languages:
 - Python Since 2017 (4 years)
 - JavaScript Since 2018 (4 years)
 - Java Since 2016 (1 year) C# - Since 2013 (3 years)
 - Visual Basic Since 2016 (1 year)
 - PHP Since 2017 (1 year)
 - C++ Since 2012 (2 years)

Databases:

- MS SQL Server Since 2013 (3 years)
- MySQL Since 2016 (1 year)
- PostgreSQL Since 2019 (2 years)
- SQLite Since 2013 (3 years)
- Firebase Since 2018(1 year) DynamoDB Since 2021 (1 year)

 CSS – Since 2018 (1 year) 			
Frameworks:			
Frontend:	Backend:		
 React – Since 2018 (3 years) 	 Flask – Since 2019 (2 years) 		
React Native – Since 2018 (1 year)	FastAPI – Since 2021 (1 year)		
TypeScript – Since 2021 (1 year)	Pandas – Dese 2020 (1 year)		
Redux – Since 2021 (1 year)	 SQLAlchemy / GeoAlchemy / Marshmallow – Since 2018 (2 years) 		
 NextJS – Since 2021 (1 year) 	Android – Since 2014 (1 year)		
Angular – Since 2020(6 months)	 SpringBoot – Since 2022 (6 months) 		
 Storybook – Since 2021(1 year) 	 Framework .NET – Since 20213 (3 years) 		
Services:	Software:		
	Matlab – Since 2017 (1 year)		
 Github – Since 2018 (3 years) 	Davinci Resolve – Since 2018 (6 months)		
GitLab – Since 2019 (1 year)	Adobe Illustrator – Since 2020 (6 months)		
Jira – Since 2019 (2 years)	NGINX Server – Since 2020 (3 months)		
Trello – Since 2019 (2 years)	Docker Desktop / Podman – Since 2020 (1 year)		
Jenkings – Since 2019 (1 year)	• Git – Since 2018 (1 years)		
Heroku – Since 2020 (1 year)	Microsoft Office / Libre Office / Google Office – Since 2012 (3 years)		
Docker – Since 2020 (2 years)	Vmware / VirtualBox – Since 2018 (2 years)		
Google Drive API – Since 2019 (2 years)	• QGIS – Since 2021 (1 year)		
TWILIO – Since 2021 (3 months)	Postman / Insomnia – Since 2018 (3 years)		
AWS – Since 2021 (1 year)	Teamviewer – Since 2018 (1 year)		
7 AVVO - Office 2021 (1 year)	Slack / Teams / Skype / Zoom – Since 2018 (2 years)		
Software development methodologies:	- Stack / Tourist Skype / 20011 Silico 2010 (2 yours)		
Kanban – Since 2019 (2 years)			
Scrum – Since 2017(2 years)			
Xtream Programing – Since 2017 (2 years)			
Waterfall – Since 2017 (2 years)			
ISO/IEC 29110 – Since 2019 (2 years)			
perative Systems:			
Windows:			
o XP.	Unix / Linux		
o Vista.	o Debian 9, 10		
o 7.	o Fedora 24		
0 8, 8.1.	o Ubuntu 18, 20		
0 10	o Manjaro (Arch)		
0 11	o Garuda (Arch)		
 Server 2003, 2008, 2012 2013, 2016 	o MacOS 10.10 or Higher		
extra Information:			
lesearch:	Programming Contests:		
 Analysis of vulnerabilities to web apps. 	ACM/ICPC		
 Proposal of an Intelligent Agent for the Management and Mitigation of 	ACM/ICPC ACM/ICPC Central America		
Cybersecurity Risks in IoT Environments	Coding-Cup		
•	 Goding-Cup Hackathon Gamification Tecnológico de Monterrey side León 		
	Flackation Garinication rechologico de Monterrey side Leon		

- Hackathon Gamification Tecnológico de Monterrey side León Hackathon FinTech Tecnológico de Monterrey campus León Hackathon Centro Fox León Hackathon Campus Party Guadalajara Hackathon Talend Land Guadalajara Hackathon Universidad de Guanajuato Hackathon Zacatecas Hackathon Dolores Hidalgo