





Charlie Cárdenas Toledo, Mgtr.


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 <https://charliecardenastoledo.web.app/>

Experience


- 2022 – Present  **Computing Professor**, Universidad Técnica Particular de Loja. Specializing in Functional and Reactive Programming in JavaScript, UI/UX Prototyping with Figma, and Artificial Intelligence with Python. Passionate about delivering practical, project-based learning to nurture future tech leaders.
- 2019 – 2023  **Senior Software Developer & Innovation Specialist**, Universidad Técnica Particular de Loja. Spearheaded agile project management using Scrum and DevOps to enhance software delivery and innovation at UTPL. Expert in Angular and TailwindCSS for robust, scalable web applications. Leveraged Firebase and Google Cloud Platform to build cloud-native solutions, driving educational technology forward.
- 2018 – 2019  **Software Developer & Project Leader**, Nodo Electritelecom, Loja, Ecuador. Advanced educational software initiatives using Angular and Tailwind CSS, ensuring responsive and user-friendly interfaces. Implemented DevOps best practices for streamlined deployment and scalability, utilizing Firebase and Google Cloud Platform to enhance project performance and reliability.

Skills


- Languages  Native fluency in Spanish. Technical proficiency in English with strong reading and comprehension skills, particularly for technical documentation.
- Full Stack Development  JavaScript, TypeScript, Angular, TailwindCSS, Figma.
- Mobile Development  Angular (para aplicaciones híbridas), Firebase, Ionic.
- Database Management  MySQL, PostgreSQL, Firebase Firestore.
- Cloud Computing  Google Cloud Platform.
- DevOps Fundamentals  Firebase, Google Cloud Platform, Git.
- Machine Learning Basics  Python, OpenCV, TensorFlow.

Research Publications



Journal Articles

-  L. R. Barba Guamán, J. Cordero, and C. Cárdenas Toledo, “Diseño e implementación de una arquitectura de comunicación entre dispositivos tecnológicos basados en comunidades de agentes para un salón inteligente,” *RISTI - Revista Ibérica de Sistemas e Tecnologias de Informação*, vol. Espec, Mar. 2020, Full-text available.

Conference Proceedings

- 1 S. Rosales, R. Reátegui, and C. Cárdenas Toledo, "A topic modeling approach to analyze teaching innovation projects," in *Proceedings of the 4th International Conference on Information Systems and Software Technologies*, Ecuador, Nov. 2023.
- 2 C. Cárdenas Toledo, L. R. Barba Guamán, M. I. Loaiza, and P. Valdiviezo-Díaz, "Use of clustering techniques in the search for innovative teacher characteristics," in *Proceedings of the 2022 17th Iberian Conference on Information Systems and Technologies (CISTI)*, Jun. 2022.  DOI: 10.23919/CISTI54924.2022.9820569.

Education

- 2021 – 2022  **Master of Computer Science, Universidad Técnica Particular de Loja** - Loja, EC.
Thesis title: *Uso de técnicas de machine learning en la identificación de patrones del perfil docente innovador.*
- 2014 – 2019  **Engineer in Computer Systems and Computing, Universidad Técnica Particular de Loja** - Loja, EC.
Thesis title: *Diseño e Implementación de una arquitectura para la comunicación entre los dispositivos existentes en el aula Inteligente SaCI de la UTPL.*