Christian RODRÍGUEZ SOTO
Costa Rica | (+506) 7133-7553
cjrs21.cr@gmail.com
github | linkedin

SUMMARY

Skilled software engineer with a proven track record of developing and delivering high-quality blockchain-based web applications using the latest technologies. Pursuing a Master's degree in Computer Science with a focus on Machine Learning. **2 years of professional experience** in leading projects with a globally diverse team of engineers.

EXPERIENCE

EY
Jul 2021 - Present / Costa Rica

SOFTWARE ENGINEER
• Tested, coded, reviewed, and delivered software with 100% on-time record and according to requirements.
• Conducted extensive research and evaluation to select the most suitable and innovative technologies.
• Reduced initial application loading time by over 100%.
• Designed core database collections, including one major architecture redesign for allowing a many-to-many relationship.
• Collaborate and communicate effectively with a multi-disciplinary and globally diverse team of engineers, clients, and stakeholders while leading projects through agile methodologies.
Technology stack: React, Node, MongoDB, Javascript, HTML, Material-UI, Cypress, Google Cloud Platform, Blockchain SDK.

UNIVERSIDAD DE COSTA RICA
2019-2020 / Costa Rica

ASSISTANT/RESEARCHER
• Teaching assistant for the following courses: Artificial Intelligence, Operating Systems, Networking, and Assembly Language.
• Collaborated on creating and grading students' assignments. In addition, configured and deployed most of the labs (including an automatic evaluation server) on Google Cloud.
• Designed, developed, and tested the MVP of an institutional cloud solution called NAC (Nube Académica Computacional).
• Built a facial recognition system integrated with Alexa for greeting students that entered the lab as an initiative of the HCI lab.

EDUCATION

UNIVERSIDAD DE COSTA RICA
2021-2024

M.S IN COMPUTER SCIENCE

• **Relevant Coursework**: Natural Language Processing, Big Data, Advanced Databases, Deep Learning

UNIVERSIDAD DE COSTA RICA
2017-2021

B.S IN COMPUTER SCIENCE
• **Relevant Coursework**: Artificial Intelligence, Machine Learning, Computer Science Research, Experimental design.
• **Graduated with honors: 9.16**

SKILLS

PROGRAMMING LANGUAGES	*Experienced:* Python	Javascript	*Familiar:* HTML/CSS	C#	SQL	Typescript
SOFTWARE DEVELOPMENT	Paradigms	GIT	CLI	Agile Methodology	DevOps
FRAMEWORKS & LIBRARIES	*Experienced:* React	MongoDB	NodeJS	Cypress	Jest	Material-UI	ExpressJS
MACHINE LEARNING	Pytorch	Jupyter	Matplotlib	Numpy	Pandas	Scikit-learn	Hugginface
LANGUAGES	*Native:* Spanish *Fluent:* English

PROJECTS

EVALUATION OF SPEECH RECOGNITION SYSTEMS
2022

Recollected and labeled (Label Studio) audio from the Costa Rica Legislative Assembly Youtube channel. Evaluated how different open source Transformer models performed on the dataset after being finetuned in Spanish from Costa Rica.**Technologies**: Pytorch, W&B, Hugginface.

SEIZURE DETECTION
2020

Compared how a Visual transformer performed compared to other ML methods(SVM, Random Forest, CNN) on seizure detection from EEG data.**Technologies**: Pytorch, Scikit-learn, Scipy, Pandas, Matplotlib.

VEHICLE COUNTING
2020

Compared multiple object trackers attached to YOLO v4 in the task of vehicle counting on street surveillance cameras.**Technologies**: Tensorflow, OpenCV, Matplotlib.

CERTIFICATIONS

- Certified SAFe® 5 Practitioner (Scaled Agile)
- Machine Learning (Coursera)
- Deep Learning Specialization (Coursera)