Luis Daniel Ferreto Chavarría

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EDUCATION

- **University of Costa Rica** — San josé, Costa Rica
  Bachelor of Science - Electrical engineering with emphasis in Computers and Networking; GPA: 8.67 March 2018 - present
  Courses: *Open-platforms programming, Data structures and algorithms, Computer architecture, Embedded systems, computer networking, Digital circuits, semiconductors theory.*

SKILLS SUMMARY

- **Coding Languages:** Python, C, C++, Verilog, SQL, Microsoft SQL Server 2019, Bash, JAVA
- **Frameworks:** Scikit, SciPy, TensorFlow, Keras, Django, Seaborn, Numpy, Matplotlib, Pandas
- **Tools:** GIT, PostgreSQL, MySQL
- **Platforms:** Linux, Windows, Arduino, Raspberry Pi, IoT , AWS, Computer networking
- **Soft Skills:** Leadership, Teamwork, Responsibility, Writing, Public Speaking, Time Management, Problem solving, punctuality

LANGUAGES

- **Spanish:** Full native speaker proficiency
- **English:** Intermediate/Advanced full professional proficiency
- **German:** Beginner proficiency
- **Italian:** Beginner proficiency

PROJECTS

- **IoT and TinyML**: Projects related with IoT and edge computing on embedded systems for multiple applications, such as voice recognition, pattern detection and long distance control using Machine learning over low/mid performance devices with Lite Tensor Flow and C++ as source code

- **Branch predictors using different techniques**: Branch prediction with set accuracy for memory pipeline improvement and high bandwidth usage in ILP.

- **NLP programs**: Emotions detection and text classification using NLP with CNN and LSTM layers with TensorFlow using Tokenizer and pad sequences.

- **Image recognition and processing**: Image recognition using MobileNet on TensorFlow with Keras API and image processing using OpenCV

- **Electronics projects on Proteus**: Electronics projects related with memory controllers, shift-registers, controllers and telemetry using Arduino and Raspberry Pi

- **Document and files encryption**: Files encryption with C using libsodium library

HONORS AND AWARDS

- Highlighted participation in embedded system course with final project over smart farming and fire detection - Jan, 2022
- Highlighted performance with GPA over 8.5/10

VOLUNTEER EXPERIENCE

- **Assistant in Electronics I course** — San José, Costa Rica
  Worked as assistant in the course guiding students, checking assignments and projects. — *Jan 2020 - Apr 2020*

- **Cyber security over SDN networks** — San José, Costa Rica
  Research and simulation using SDN, separating data and control planes with cyber security — *Apr 2022 - Present*

CERTIFICATIONS

- Python Data Analyst Issued by: CEU - Continuing Education Units
- Git Essential Training: The basics Issued by: CEU - Continuing Education Units
- Querying Microsoft SQL Server 2019 Issued by: LinkedIn Learning

REFERENCES

- PhD. Luis Poveda Wong   Teacher at University of Costa Rica and responsible teacher in assisted course.
  contact: Email: luis.povedawong@ucr.ac.cr   Mobile: +506-87068834

- PhD. Gustavo Núñez Segura   Teacher at University of Costa Rica and responsible teacher of researching over SDN.
  contact: Email: gustavoalonso.nunez@ucr.ac.cr

- PhD. Mauricio Espinoza Bolaños   Teacher at University of Costa Rica
  contact: Email: mauricio.espinoza_bola@ucr.ac.cr