

Ruben Yanez Hernandez | Bachelor in Computer Science

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Summary

Software engineer with a strong background in robotics, full-stack development, and machine learning. Experienced in developing software solutions for web applications and computer vision. Skilled in Python, C++, TypeScript, and ROS2, with leadership experience in collaborative development environments.

Education

CETYS Universidad | Mexicali, Baja California
Bachelor of Engineering in Computer Science | 06/2028

- **Relevant Coursework:** Data Mining, Theory of Automata, Analysis of Algorithms, Object-Oriented Programming Languages, Computer Graphics.
- **GPA:** 95%

Experience & Projects

Foxcoding | Mexicali, Baja California
Instructor | 07/2025 - Present

- Delivered introductory courses on **Git** and **OpenCV**, teaching practical applications to new students.
- Assisted in the instruction of **React development courses**, providing guidance and technical support to incoming freshmen.
- Collaborating with instructors to enhance course delivery and improve the learning experience for students.

Interactive Social Media Network Visualizer
Project | 05/2025

- Designed and developed an interactive social media network visualizer using **React** and **D3.js**.
- Built real-time graph structures to display user relationships, identify influencers, and analyze engagement patterns.
- Implemented interactive UI components for seamless data exploration and network analysis.

Seafox Inventive | Mexicali, Baja California
Software Engineer | 09/2024 - 08/2025

- Developed and managed software for underwater vehicles competing in the **MATE ROV Competition**.
- Utilizing **Python**, **OpenCV**, **YOLO**, **ROS2**, **Roboflow**, **Realsense**, **C++**, and **Arduino** to implement **computer vision and machine learning** algorithms.
- Responsible for object detection, real-time data processing, and robotic control to enhance navigation and automation.
- Collaborated with a team of engineers to develop software for underwater robotics.

Foxcoding | Mexicali, Baja California
Web Developer | 08/2024 - 01/2025

- Contributed in the redevelopment of CETYS Universidad's Vinculación website, improving UI/UX and performance.
- Worked in a **14-member** team to optimize front-end and back-end components using **React**, **Tailwind**, and **TypeScript**.
- Enhanced website navigation, responsiveness, and security to improve accessibility.

Skills

- **Programming:** Python, C++, JavaScript, TypeScript, Bash, Java
- **Frameworks & Tools:** ROS2, OpenCV, TensorFlow, React, React Native, Tailwind CSS, Git
- **Soft Skills:** Leadership, Team Collaboration, Communication
- **Specialized Knowledge:** Computer Vision, Machine Learning, Robotics, Web Development, Data Visualization

Languages

English (Fluent), Spanish (Fluent)