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Professional Summary

A Computer Systems Engineering student specializing in Applied AI with hands-on experience across the full software development lifecycle. Proficient in Python, Java, and Node.js, and eager to apply analytical and problem-solving skills to build innovative.

Education

Instituto Tecnológico de Ciudad Guzmán

2020 – 2025 Expect

*Bachelor in Computer Systems Engineering
Specialty: Applied Artificial Intelligence*

Experience

Tata Consultancy Services

February 2025 – July 2025

Information Technology Trainee

- Completed intensive training in software development fundamentals, including Java, Python, SQL, and web technologies.
- Gained practical knowledge of software engineering best practices, object-oriented programming, and database management.
- Developed a strong foundation in IT consulting and client-oriented problem-solving.
- Strengthened communication and teamwork skills through collaborative, agile-style projects.

Projects

Digital Creative Lab — Full-Stack Platform | *React, Node.js, Express.js, MySQL, JavaScript, Git.* **July 2025 – current**

- Lead the full-stack development of an educational web platform, collaborating with teachers to define pedagogical requirements and design a child-focused UI/UX.
- Develop a RESTful API using Node.js and Express.js to manage user data, classroom sessions, and student progress, connected to a MySQL database.
- Engineer a dynamic front-end using React.js to deliver real-time interactive simulations, including a gamified science module and a math practice game.
- Design and implemented a dedicated teacher dashboard for classroom administration and student activity monitoring, improving classroom management capabilities.

AI-Powered Sign Language Detection Backend | *Python, OpenCV, TensorFlow, Keras* **June 2024 – December 2024**

- Led the end-to-end development of a real-time detection system, creating a scalable AI solution.
- Engineered an efficient data pipeline for image preprocessing and gesture classification using a CNN.
- Resolved implementation challenges to achieve high-accuracy gesture classification.

Syntactic Analyzer for a Custom Language | *Python, Regular Expressions*

2022 – 2023

- Applied strong analytical skills to design and implement a program that validated custom language syntax.
- Demonstrated a deep understanding of algorithms and logical data structures.
- Implemented robust error handling for syntactic and semantic validation.

Technical Skills

Core Languages & Frameworks: Java, Python, Node.js, C++, C

Backend Development: Django, Flask, Express.js

Frontend Development: HTML, CSS, JavaScript, Angular, React.js

Databases: SQL, MariaDB, MySQL

AI & Machine Learning: TensorFlow/Keras, Scikit-learn, OpenCV, NumPy, Pandas

DevOps & Tools: Git, Docker, npm, AWS

Methodologies: Agile, Scrum, Waterfall

Soft Skills

Problem-Solving & Analytical Thinking: Strong ability to analyze complex problems and devise effective solutions.

Communication & Teamwork: Excellent verbal and written communication skills, with proven experience in collaborative, agile environments.

Proactive & Disciplined: A self-starter with a disciplined approach to meeting deadlines and project goals.

Creativity & Adaptability: Creative thinker with the ability to adapt to new technologies and challenges.

Continuous Learning: A strong desire for constant learning and professional growth.