



LUIS DANIEL FUENTES LICERO

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Full-Stack Developer specialized in Enterprise Integration with solid experience in Microsoft Dynamics 365 Business Central, MuleSoft Anypoint Platform, and microservices architecture. Expert in developing end-to-end solutions using Node.js, React, Java, and cloud platforms (AWS, Azure), with a focus on ERP system integration and business process automation. Proven track record of optimizing infrastructure through Kubernetes, Docker, and CI/CD pipelines, achieving a 60% reduction in deployment times and significant improvements in scalability

PROFESSIONAL EXPERIENCE

Skills Mosaics

Full-Stack Developer - Business Central & MuleSoft Integration

March 2025 – Present

- Developed enterprise integrations using MuleSoft Anypoint Platform as an API Gateway, connecting a React application with Microsoft Dynamics 365 Business Central to automate candidate and client management.
- Implemented Business Central ERP modules for corporate entities featuring automated financial analysis (NPV, IRR, EBITDA) and data synchronization via REST APIs.
- Designed serverless architecture on Azure with secure backend functions for OAuth authentication, external API integration, and CORS handling, improving system security and scalability.
- Built a full-stack web application with React and Node.js, developing the service layer (API client, candidate/Business Central/email services) with robust error handling and mock modes for development.
- Automated billing and sales management processes in Business Central by implementing automated Sales Invoice creation linked to clients and financial analysis projects, optimizing commercial document workflow.

Freelance | Multiple Corporate Clients

Full-Stack & DevOps Developer

June 2024 – Present

- Designed and implemented the full Software Development Life Cycle (SDLC) for multiple corporate projects, ensuring compliance with quality, security, and best practice standards.
- Developed containerized microservices architectures using Docker and Kubernetes, increasing system scalability by 40% and facilitating multi-cloud deployments.
- Implemented high-performance RESTful APIs with Node.js and Express.js, handling over 10,000 daily requests with response times under 200ms.
- Built and optimized CI/CD pipelines using Azure DevOps and automation tools, reducing deployment times by 60% and minimizing human error.
- Configured scalable cloud infrastructure on AWS and Azure, implementing load balancing and auto-scaling to guarantee 99.9% uptime.

Beats by Dre

January 2025 – March 2025

Data Analysis Extern

- Conducted comprehensive market research analyzing Gen Z consumer behavior for premium audio devices, delivering strategic insights for product positioning and marketing strategies.
- Built a data analysis pipeline using Python and advanced NLP frameworks to process and analyze over 10,000 customer feedback records, achieving 95% accuracy in sentiment classification.
- Designed and developed interactive data dashboards to present key findings to cross-functional teams and contributing to business recommendations

Fundacion Universitaria Tecnologico Comfenalco

August 2025 – December 2025

Adjunct Professor - Programming I & OOP

- Designed and taught courses on Programming and Object-Oriented Programming (OOP) using Java.
- Led technical knowledge transfer, guiding students in problem-solving, debugging, and algorithmic thinking.
- Developed practical labs and assessments aligned with industry standards.

EDUCATION

Universidad del Norte

B.S. in Systems and Computing Engineering

University of Regina

Academic Exchange (Academic Distinction)

Universidad de San Buenaventura

Specialization in Pedagogy and University Teaching

RESEARCH PROJECTS

Universidad del Norte

Forest Fire Prevention Estimation Model

- Developed and deployed Machine Learning models (Random Forest, Gaussian Naive Bayes) achieving 83% accuracy in forest fire detection.
- Processed 10,000+ data points from meteorological, topographical, and socioeconomic sources.
- Optimized performance through K-Fold cross-validation, improving reliability by 25%.
- Identified key predictive variables (brightness temperature, fire radiative power) increasing prediction speed by 40%.

Universidad de San Buenaventura

Guided Learning Chatbot (In Progress)

- Designed and developed a web platform with an AI-based chatbot for programming education, implementing adaptive learning and predictive analysis of student behavior.
- Mixed-method research (n=80-120 students) to evaluate effectiveness in developing critical thinking, problem-solving, and cognitive autonomy in introductory engineering courses.
- Implemented an adaptive assessment system with dynamic generation of personalized content and real-time progress tracking through data analysis.

Universidad del Norte

Weight, Height, and BMI Estimation through AI

- Developed and optimized pre-trained deep learning models to estimate weight, height, and BMI from body images in uncontrolled environments.
- Applied image processing and transfer learning techniques to reduce variability caused by posture, lighting, and artifacts, improving model accuracy.
- Validated model performance using statistical metrics (MAE, MSE) and proposed a non-invasive solution with potential applications in health, nutrition, and medical prevention.

CERTIFICATIONS & COMPLEMENTARY EDUCATION

- OEFL IBT: 103 (C1 Professional)
- Research Incubator (Universidad del Norte)
- Microsoft Certified: Azure Fundamentals (AZ-900)
- Microsoft Certified: Azure Data Fundamentals (DP-900)
- Backend Development with .NET - Sophos Solutions LATAM
- The Web Developer Bootcamp 2024 (64 hours) - Udemy
- Machine Learning A-Z™: AI, Python & R (42 hours) - Udemy
- Python with Django & Flask Frameworks (71 hours) - Udemy

LANGUAGES

- Spanish: Native (C2)
- English: Professional Advanced (C1) - TOEFL IBT: 103/120

TECHNICAL SKILLS

- Programming Languages: JavaScript/TypeScript, Java, Python, C#, SQL.
- Backend Development: Node.js, Express.js, Java (Spring Boot), .NET Core, Django, Flask, RESTful APIs, Microservices.
- Frontend Development: React.js, Next.js, Angular, HTML5, CSS3, Responsive Design, Single SPA.
- Databases: PostgreSQL, MySQL, MongoDB, SQL Server, DBeaver, DB Design & Optimization.
- DevOps & Infrastructure: Docker, Kubernetes, CI/CD Pipelines, Azure DevOps, Azure Pipelines, Git, DevSecOps.
- Cloud Computing: AWS (EC2, S3, Lambda, RDS), Azure (App Services, Functions, CosmosDB).