

Caio Henrique G. Seniuk

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SUMMARY

Software Engineer with experience in automation and embedded systems at IrriGate, specialized in C/C++ programming languages, data-driven decision making, and IoT systems. Skilled in leveraging cloud-based technologies to develop automation solutions and processing multiple data sets from different projects of our customers. Proficient in analytics packages (Python, Matlab) and visualization tools (Power BI, Tableau, Excel).

EXPERIENCE

IrriGate, Firmware Engineer

Mar 2025 - Present

Leading the development of an autonomous product for nutrient dosage in fertigation systems, defining solution architecture, control algorithms and data integration strategies.

Managed the quality of collected data, performing necessary processing and transformation to support analysis and anomaly detection.

Improved automation algorithms focusing on saving water and reduce the use of substances for the crop by data-drive decision making, with a proven analysis of 50% production increase.

Developed system integrations with cloud platforms to enable operational data visualization, remote system monitoring and delivery of insights to users.

Designed AI agent workflows with n8n and within the Kommo CRM for customer services.

EDUCATION

Pontifícia Universidade Católica do Paraná (PUC-PR)

Bachelor of Engineering • Computer Software Engineering • 2024 - 2028

Education focused on strategic software architecture, Agile methodologies, and engineering principles for developing robust, data-informed applications.

LICENSES & CERTIFICATIONS

Google: Artificial intelligence and productivity

Google • OA-2025-0514001119828 • Issued Apr 2025

Introduction to Data Science

Cisco Networking Academy • https://www.credly.com/badges/7eb6ab74-ef78-4f35-9bca-b6dfd2bee3e9/linked_in_pro • Issued Apr 2025

SKILLS

Python • C/C++ • SQL • Matlab • Power BI • Excel • Tableau • English • Amazon Web Services (AWS) • Microsoft Azure