

Bryan Romero

SOFTWARE ENGINEER · FULL STACK · DEVOPS

San José, Costa Rica

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Summary

Proficient in Python, Node.js, and Golang, I am a 5+ software engineer passionate about crafting impactful solutions. My journey started in industrial technology environments, where I developed my skills in full-stack, database design, APIs, communication protocols, data visualization and IoT through various projects. More recently, I have delved into the world of DevOps and automation, continually honing my expertise in creating efficient workflows and automating tasks to streamline processes.

Work Experience

Freelance Navigator

Remote

SOFTWARE ENGINEER

Sep 2023 - Current

- Internal projects
- Scientific Computing: Collaborated with data scientists to create LLM replication scripts using LLama2 for on-premise deployment. Leveraged Python for smooth implementation and to ensure the model can be reliably reproduced
- Built web app (Node.js) for ASADA Santa Elena (Puntarenas, Costa Rica) to allow residents to check their unpaid water bills.

Intel Corporation at Praxis

Heredia, Costa Rica

SOFTWARE ENGINEER - II

Jul 2022 - Sep 2023

- Facilitated cross-team collaboration, optimized tech integration for efficient lab setup(NUC, CPU, Banino, TTK).
- Automated Testing: Unleash the power of Python, Bash, and PowerShell scripts to interact and write test sequences for different architectures and processor models on Linux, and Windows
- Slashed setup time by 87% by developing a PyQt wizard in Python for installing libraries and utilities.

Cecropia Solutions

Cartago, Costa Rica

SOFTWARE DEVELOPER

April 2021 - April 2022

- Streamlined software delivery with automated CI/CD pipelines: Built Flask Python 3 and C# .NET pipelines on Bitbucket and Azure DevOps.
- Optimized creation of Docker containers based on load testing, maximizing efficiency and minimizing costs.
- Amazon IoT migration: Implementation of an MQTT broker configuration with Prometheus and Grafana for real-time metrics and automated reconstruction of the solution using Python and Bash scripts for an IoT migration project saving money on operations.
- Azure Data Bricks Python Book (PySpark) - Algorithm Created to Merge Salesforce Data for Data Analysis.

Unilever

Belen, Costa Rica

FULL STACK DEVELOPER & TECH ANALYST

April 2019 - April 2021

- Crafted a Golang-based solution for paperless operations, data analysis, known as MES with its main KPIs(OEE, giveaway, WO, QMS).
- Developed Python microservices for reporting, leveraging Flask as a web server, to deliver insightful statistics via email.
- Industry 4.0: Contributed to multidisciplinary engineering projects in IoT and industrial automation.
- Enhanced industrial machine efficiency through data analysis, leading to measurable cost savings.
- Supervision and follow-up of improvement of the industrial network.
- Optimized web server performance for low-power networks, improving load times.
- Streamlined processes by creating Excel macros for line supervisors and process engineers.

Honors & Awards

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| 2018 | Finalist , Hackathon 19 - gestion financiera pública, organized by the International Monetary Fund and Ministerio de Hacienda | San Jose, Costa Rica |
| 2017 | Participation , International Space Apps Challenge, organized by NASA and the ITCR | Cartago, Costa Rica |
| 2015 | Academic excellence , Certificate of recognition by C.T.P Mercedes Norte | Heredia, Costa Rica |

Education

Costa Rica Institute of Technology

San Jose, Costa Rica

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Feb. 2017 - Current

C.T.P.Mercedes Norte

Heredia, Costa Rica

BUSINESS IT TECHNICIAN AND HIGHSCHOOL DIPLOMA

Feb. 2013 - Nov. 2015

- Software Development, Computer Equipment Maintenance, administrative Computer Environment, Computer Networks, IT