Allyne Machado dos Santos

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Born on 12/03/1990

EDUCATION HISTORY

2019 – 2023:

Ph.D. in Chemical Engineering
Norwegian University of Science and Technology (NTNU)
Trondheim - Norway

In collaboration with Nofitech.

- Thesis: *"Modelling, Optimization and Control of Recirculating Aquaculture Systems"*. Advisors: Prof. Sigurd Skogestad, Assoc. Prof. Johannes Jäschke

WORK EXPERIENCE

Aug/2024 – Aug/2025

Product Ownership Lead, CSPO®
Deep Seed Solutions, Product Owner
Rio de Janeiro, RJ - Brasil

- Managed backlog prioritization and user story writing to align product development with business goals.
- Configured and automated Jira and Jira Service Management to streamline project workflows.
- Defined product vision and requirements while overseeing the definition of Done for deliverables.

Successfully delivered two major features and revitalized a complex 3-year-old feature for deployment.

Mar/2023 – Aug/2024

RD&I Senior Researcher
Deep Seed Solutions, Researcher 7
Rio de Janeiro, RJ - Brasil

- Mapped and developed methodologies for new features in FLOCO®, enhancing software capabilities.
- Collaborated with industry stakeholders like Aker BP and Karoon Energy, ensuring client needs were met.
- Engaged directly with clients to refine software solutions, fostering strong professional relationships.

2019 – 2023:

Ph.D. Research Fellow
Norwegian University of Science and Technology (NTNU)
Trondheim - Norway

Temporary position in collaboration with Nofitech.

Main tasks:

- Analysis of industrial data;
- Machine learning application;
- Process optimization and control;
- Modelling and simulation;
- Student supervision.

Set/2018 – Dez/2018	**Exchange Program** **Norwegian University of Science and Technology (NTNU)**, External Researcher Trondheim - Norway Internship with financial support from the International Partnerships for Excellence Education, Research and Innovation Consortium (INTPART) in collaboration with Subsea Production and Processing (SUBPRO). • Project: *"System Identification and nonlinear model predictive control applied on gas lift with two wells system"*. Advisors: Prof. S. Skogestad and D. Krishnamoorthy.
Jul/2013 – Jun/2014	**Internship** **Laboratory of Software Development**, Intern Rio de Janeiro, RJ - Brazil Intern with a research scholarship from Fundação COPPETEC. Main tasks: • Identify the most important process variables for production optimization; • Development of a routine to perform statistical monitoring calculations in Matlab; • Analyze the process using univariate statistical process control (SPC).
Jul/2013 – Jun/2014	**Exchange Program** **Universidade de Queensland**, Exchange Student Brisbane, QD - Australia Science without Borders Program.

SKILLS AND OBSERVATIONS

Language Skills
- Portuguese – Native
- English – Fluent

Computer Skills
- Microsoft Office, Latex, and Git
- Programming: Matlab, Python, C++, MySQL

Courses: (Certificates)
- Python & MySQL - certified by Udemy
- Unix Shell; R (Rstudio); Git - certified by Software Carpentry
- Scrum Product Owner, CSPO® - certified by Scrum Alliance

Communication

Good communication skills, English fluency developed during English course, exchange programs, and private tutoring in Australia. Teamwork skills being improved since my graduation, but mainly on my last position as a Product Ownership Lead.

PROFILE SUMMARY

I am a creative and solutions-oriented person with a strong interest in problem-solving and strategic decision-making. Adept at exploring alternative approaches to communicate complex ideas effectively and influence outcomes. Passionate about cross-cultural engagement, with a global mindset developed through travel and genuine curiosity about diverse cultures and everyday life. Excellent interpersonal skills, naturally building relationships across backgrounds. Enthusiastic about storytelling through photography, film, and music, bringing a well-rounded and culturally aware perspective to any team.