

PROFESSIONAL SUMMARY

Dedicated Production (Industrial) Engineer and self-taught Developer with a strong focus on Industry 4.0 and the Industrial Internet of Things (IIoT). Since 2020, I have been actively acquiring software development skills to create innovative applications that can give the Australian industrial sector and related businesses a competitive advantage. Aiming to enhance my proficiency as a full-stack developer, I am determined to establish mutually beneficial relationships within the software development industry, fostering potential future partnerships.

PROFESSIONAL SKILLS AND INTERESTS

- **Front-end Development:** React, Next.js
- **Back-end Development:** Node.js, Express, Nest.js, NoSQL
- **Cloud Computing:** AWS (EC2, VPC, Amplify, S3, SES)
- **IIoT, Industry 4.0 and Automation:** Node-RED, SCADA, MQTT, WebSockets, IoT Protocols, PLC and HMI programming
- **Data Analytics:** MS Power Bi, D3.js, Python Data Science libraries
- **Cybersecurity:** Network and application security
- **Graphic Design:** Adobe Suite (Illustrator, Premiere, After Effects, XD), 3D Modeling and Simulation (Blender, SolidWorks, Unreal Engine)

EDUCATION

B.Eng, Production (Industrial) Engineering. Unifor - Fortaleza University (Fortaleza, CE, Brazil)

MBA, Corporate Management. FGV - Getulio Vargas Foundation (Fortaleza, CE, Brazil)

Additional Professional Development:

- Data Analysis with Python - IBM Cognitive Class | Remote (2020)
- Advanced Diploma in Program Management – Greenwich Business College | Sydney, NSW (2019)
- Diploma in Project in Project Management – Greenwich Business College | Sydney, NSW (2018)

PROFESSIONAL EXPERIENCE

Tya-Tech Industry 4.0 Solutions (tyra-tech.com.au)

Jan/2022 – Present

Business focused on providing Industry 4.0 solutions, integrating IT (Information Technology) into OT (Operational Technology) automation systems.

IIoT Developer

- **Technology and market research:** Conduct thorough research on global Industry 4.0 trends as well as local industry requirements, in order to formulate a strategic plan that effectively addresses the technological gap and delivers tailored services for local businesses.

- **Full-stack Development:** Develop front-end applications using React, NEXT and D3.js to collect information from Node.js/Express servers and generate real-time data dashboards.
- **Product Development/ Prototyping:** Develop prototype solutions in Node-RED, Node.js, JavaScript, for applications that communicate in real-time with industrial equipment (Siemens), databases and 3D simulation tools (Factory I/O), thus, serving data for further consumption via REST API and MQTT pub/sub systems.

OTHER PROFESSIONAL EXPERIENCES

Trans-Tasman Business Circle (Sydney NSW, Australia) – Data Analyst (Contract, Remote)

Analyzed the company database, using Clustering and Data Visualization techniques, to recommend strategic programs, partners and customer audience. **(2020)**

COSS Consulting (Sao Paulo, SP, Brazil) - Business Advisor (Casual, Remote)

Conducted research in the European Industry 4.0 market, with focus in the automotive industry, generating reports and strategic insights in order to create COSS Consulting International. **(2019)**

Metalmeccanica Maia (Eusebio, CE, Brazil) - Process Engineering and Quality Coordinator (full-time)

Effectively coordinate and oversee the activities related to product development, process improvement, and quality management, including the crucial tasks of maintaining and re-certifying ISO 9001 standards. **(2016)**

Durametal LTDA (Ceara, Brazil) - Process Engineer (full-time)

Product development and process improvement activities. **(2014)**

Esmaltec S/A (Ceara, Brazil) - Process Engineering Analyst (full-time)

Product development and lean manufacturing implementation activities **(2011)**.

OTHER RELEVANT INFORMATION

Additional Languages: Portuguese (native)

Technical Skills:

- **Programming Languages:** proficient in JavaScript and Typescript; notions of C++ and Python;
- **Front-end frameworks and tools:** proficient in React.js, Next.js; pre-processors Tailwind CSS, Less and Sass; Bootstrap and Material Ui; Ui/Ux design tools such as Figma and Adobe XD.
- **Back-end development:** proficient in Node.js, Express, Next.js, Restful APIs, GraphQL, Docker.
- **Databases:** proficient in relational databases (MySQL and Postgres) and NoSQL (MongoDB, Firebase, DynamoDB).
- **Cloud Services:** knowledge in AWS services with focus on application development (S3, EC2, Route53, CloudFront, RDS, DynamoDB, Amplify, SES, among others).
- **Methodologies:** Project Management; knowledge of Agile and DevOps (using Docker and Jenkins); Version Control with Git/Github.
- **Others:** knowledge in Adobe Suite tools for graphic design and video editing; MS Excel, Power Bi and MS Project; VS Code and Postman.