LUCAS FRANSON BARROS

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SOFTWARE ENGINEER

Azure Certified software engineer with over 5 years of experience developing enterprise applications for Beverages, Human Resources, and Pharmacy sectors. Developed robust and scalable Supply, ERP, and CRM systems following Scrum methodology. Skilled in implementing technologies such as TypeScript, Angular, C#, .NET, MS SQL, MongoDB, Datadog, and Azure DevOps.

Object Oriented Programming • Design Patterns • Web Services • System Design • Testing • SOLID
Domain Driven Design • Microservices • Observability • Cloud Computing

Languages: C#, JavaScript
Web: HTML, CSS, Material UI, React, TypeScript
Web Services: REST API, SOAP
Web/App Servers: Internet Information Services (IIS), Node.js
Frameworks: .NET, Angular, ExpressJS, React Native
Databases: MS SQL, MongoDB
Design Patterns: Singleton, Factory, Decorator, Strategy, Observer
SDLC: Agile, Scrum
Tools: Visual Studio, VS Code, Azure DevOps, Docker, Git
Platforms: Windows, Linux, Azure
Application/Software: Datadog, SAP, MuleSoft

PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

AMBEV TECH, Sorocaba, Brazil • 07/2021 – 01/2024
Largest multinational brewery in the world.

Software Engineer
Developed applications for supply department in collaboration with the US team.
- Implemented advanced search for beer recipe parameter listings in the PTS Portal System using TypeScript and Angular, which improved user search efficiency by 40%.
- Built a personalized dashboard for factory statistical analysis using Angular, enhancing client satisfaction and positively impacting customer relationships.
- Implemented a data export feature for the ERP system using .NET and MS SQL, enabling clients to generate reports 30% faster.
- Re-engineered the persistence layer of recipe book creation utilizing unit of work behavioral pattern that improved processing time by 50%.
- Integrated SAP and Mulesoft systems for internal factory quality application using REST communication, achieving better integration among the factory sectors.
- Spearheaded the unit test implementation for the beer recipes portal using xUnit and Moq enhancing the quality of deployed code.
- Deployed the application code to production using Azure Services (Pipelines, DevOps, AKS) improving engineer's productivity.

Technologies Used: *JavaScript, Typescript, Angular, C#, .NET Core 6, .NET Framework 4.8.1, Azure DevOps, Datadog, MS SQL, Git*

CADMUS SOLUÇÕES EM TI, Votorantim, Brazil • 11/2020 – 07/2021
Outsourcing company.

Software Engineer
Developed applications for internal usage.
- Developed a search and filter feature for the core HR management system using TypeScript and Angular, leading to a 20% improvement in HR efficiency.

- Established secure communication for any request from frontend to backend using AES encryption enhancing the users' safety against an attack.
- Contributed to a hackathon for creating an internal library using typescript and angular, increasing the company's productivity by 15%.
- Built a real-time data import module for the employee reward system using MongoDB and .NET, reducing data entry errors by 35%.
- Developed statistical dashboard for project management information using material UI charts and typescript, improving project time spent on development.
- Optimized application performance for querying into the database using Entity Framework Core and SQL decreasing the company's costs with servers.
- Mentored a team of 3 intern developers, all hired permanently at the end of their internships.

Technologies Used: *JavaScript, TypeScript, Angular, .NET Core 6, .NET Framework 4.8.1, MS SQL, MongoDB, Docker, Git*

TAFNER, Sorocaba, Brazil • 08/2018 – 11/2020
Outsourcing company.

Junior Software Engineer (11/2019 – 11/2020)
Developed applications for outsourced companies.
- Developed REST API endpoints for the inventory management system using .NET and MS SQL, improving data retrieval speed by 40%.
- Implemented safe database changes for product order creation using Entity Framework transactions decreasing inconsistency in the system.
- Built a search and filter functionality for the accounts payable listings module using Angular and TypeScript, leading to a 25% increase in user engagement.
- Integrated government invoice system for the ERP selling sector using Soap requests, enhancing client satisfaction and productivity.
- Refactored raw material storage for ERP system using C# design patterns and math calculus, reducing bugs by 15%.
- Developed a mobile application for car parts sales catalogs using React Native improving user experience.
- Added approval request flow for ERP product changes using MS SQL temporal tables, empowering users to undo changes to the system.

Technologies Used: *JavaScript, TypeScript, Angular, C#, .NET Framework 4.8.1, ASP.NET MVC, MS SQL, Git*

Intern Software Engineer (08/2018-11/2019)
Developed applications for outsourced companies.
- Optimized data export processes for the ERP system using .NET and MS SQL, saving the company operational costs.
- Developed statistical dashboard for CRM pharmaceutical system using Material UI charts and Typescript, enhancing user experience.
- Implemented a lazy loading table for all lists in the CRM system using Angular and .NET, increasing user productivity in the application.
- Created external application process for quote creation using .NET and console application, achieving a better application performance.
- Refactored order approval requests for CRM system using C# design pattern and Entity Framework decreasing bugs happening.
- Engineered a new version of an old system for quote creation application using .Net Core and Angular, saving the company money for maintaining the old system.

Technologies Used: *JavaScript, Typescript, Angular, C#, .NET Framework 4.8.1, ASP.NET MVC, MS SQL, Git*

WORK DOC, Sorocaba, Brazil • 03/2018 – 07/2018
Logistic document storage company.

Intern Software Engineer
Developed application for internal usage.
- Developed a search and filter feature for the document system using Razor, leading to a 15% improvement in customer efficiency.
- Re-engineered PDF generation for document system using ASP.Net pdf library increasing user productivity.
- Contributed to creating a new version of the company's application for saving documents using NodeJS enhancing application performance.

- Developed a sending email application for the company documents system using the ASP.Net email library saving the client time in asking for the documents.
- Refactored reading PDF document code for adding a new document into the system using ASP.NET and MS SQL adding more quality to the system code.
- Optimized the back-end performance for the document web application using stored procedures in MS SQL increasing the application performance.

Technologies Used: *JavaScript, Typescript, NodeJS, C#, ASP.NET MVC, Razor, MS SQL, Git*

ACADEMIC PROJECTS

Maharishi International University (2024) E-commerce
E-commerce web application with admin, buyer, and seller users, where they can make transactions with the products. Utilized Java, Spring Boot, Typescript, React, MySQL

Maharishi International University (2024) Zillow
Web application for renting and buying houses and apartments, implemented using microservice with docker and API gateway. Utilized Java, Spring Boot, MySQL, Microservice, API Gateway

FIAP (2023) Travel Experience
Mobile application for recommending locations based on the user's interests. Utilized Flutter, Typescript, NextJS, MongoDB

UNISO (2022) Wenzer
Social networks focused on students to find other students for entrepreneurial projects. Utilized Typescript, React, Nodejs, MySQL, AWS

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 10/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Enterprise Architecture, Web Programming, Web Application Architecture, Algorithms

MBA in Software Engineer
FIAP, São Paulo, Brazil (2023)

Bachelor of Science in Information Systems
Universidade de Sorocaba, Sorocaba, Brazil (2022)

CERTIFICATIONS

Azure AZ-900 (May 20)

VOLUNTEER WORK

Mobile Developer Instructor (01/2018 – 02/2018) - Used App Inventor 2 and Firebase at ETEC Technical School.