Alvaro Barros

Senior Software Engineer - Brazil

alv.barrosc@hotmail.com

alvbarros.dev

+55 13 99708 9513

github.com/AlvBarros

linkedin.com/in/alv-barros-c

dev.to/AlvBarros

OVERVIEW

Versatile software engineer with over 7 years of experience and a generalist mindset, focused on solving problems with the right tools for the job - be it backend, frontend or infrastructure.

EXPERIENCE

Senior Backend Developer, Deel — 2024—Present

- Created a migration and rollout plan to re-structure client data into a standardized way as to automate payroll which were previously being done manually by Payroll Managers
- Implemented and maintained an automation of payroll for US-based clients using NATS queues and JavaScript with NodeJS runtimes
- Implementation of health and sanity checks for said automated payroll workflows, reducing errors and enabling faster detection and resolution of issues
- Unified Global and US client onboarding workflow, contract creation and tax registration for new clients under a single onboarding workflow through the refactor and implementation of new API endpoints

Technologies used

- Web: React, JavaScript
- Backend: NodeJS, Nest, PostgresSQL
- Cloud: AWS Lambdas, S3
- Infra: Kubernetes

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Full stack Developer, iRestify — 2023—2024

- Contributed to the billing workflows for the Admin platform using AWS step functions
- Integrated the system to automatically charge clients using Stripe API
- Enabled automatic invoice generation and updates to the internal invoice database

Technologies used

- Web: React, TypeScript
- Backend: NodeJS, NestJS, PostgreSQL
- Cloud: AWS Lambdas, CDK

IT Architect, Santander Bank — 2019—2023

- Led the refactor of a legacy application from ASP.NET to Java Spring, and from Ionic to native mobile using Flutter and React micro apps
- Led the migration from a fully Microsoft Azure-based infrastructure to a multi-cloud environment introducing and integrating Amazon Web Services (AWS)
- Designed and maintained a new "host application" using a micro-frontend architecture to support multiple smaller apps built with different technologies under one authenticated session and sharing required resources
- Contributed to librares and SDKs for networking, cryptography and analytics used across multiple mobile projects
- Created comprehensive documentation, scaffolding tools and video tutorials to support internal adoption and long-term maintenance of these libraries (inner source model)

Technologies used

- Web: Angular, React, JavaScript
- Mobile: Flutter, Kotlin, Swift
- Backend: NodeJS, Java Spring Boot
- Cloud: Azure, AWS

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Senior Software Engineer, Vector Software — 2019—2019

- Design new features to legacy application
- Implement inner source cryptography libraries written in Java to C# from scratch
- Created new components and features in legacy Ionic app

Technologies used

- Web: Angular
- Mobile: Ionic, Cordova, Kotlin
- Backend: ASP.NET, Microsoft SQL Server
- Cloud: Azure

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Associate Software Engineer, Avanade — 2018—2019

- Maintained and developed new features for Hospital administration application
- Deployed new versions and provided support

Technologies used

- Web: Angular, jQuery
- Backend: ASP.NET Core, Microsoft SQL Server
- Cloud: Azure

Software Development Intern, Resource Solutions (now Qintess) — 2017—2018

- Development of new features using Agile methodology for clients such as Itaú Unibanco
- Development of multiple landing pages for smaller clients
- Maintenance to CPFL administration application

Technologies used

- Web: Angular, jQuery
- Backend: ASP.NET, Microsoft SQL Server
- Cloud: Azure

ACADEMIC PUBLICATIONS

Bi-Dimensional Image Processing for Measuring Human Body Parts — 2019
10th IFSP Innovation, Science and Technology Congress (CONICT)

The present work aims to present a study on visual recognition techniques, based on object detection techniques that are capable of recognizing, delimiting, segmenting and measuring the human foot. The experiments were carried out in the TensorFlow environment in conjunction with the MS-COCO model. It is expected that the results of this application can be used in e-commerce applications such as virtual fitting

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rooms for the footwear industry and other applications that may arise.

EDUCATION

Federal Institute of Education, Science and Technology of São Paulo — System Development and Analysis, 2020