# ASSIS FERREIRA

## SOFTWARE ENGINEER

## CONTACT

ferreira.assisruny@gmail.com

## LINKS

assisfery.github.io

linktr.ee/assisfery

linkedin.com/in/assis-ferreira

## IDIOM

- Cape Verdean Creole (Native/C2)
- Portuguese (Fluent/C2)
- English (Post-Intermediate/B2)

## SUMMARY

With 6 years of professional experience in software development. A engineer specializing in creating web solutions, solving problems, designing relational databases and building scalable applications.

## PROFESSIONAL SKILLS

- Team Player
- Problem Solver
- Object-Oriented Programming
- APIs Design and Implementation
- Building and Maintaining Web Applications
- Working with Microservice Architectures

## EXPERIENCE

**DEVNOLOGY (devnology.com.br)**

**MAY 2022 - PRESENT   BELO HORIZONTE, BRASIL(REMOTE)**
Devnology is a company that develop online systems, crawlers, robots and applications for various purposes.

**TECHLEAD AND FULL STACK DEVELOPER (CONTRACT)**

**Role:** Team supervision, development, monitoring, code review, application deployment.

- **Team Management** - supervise a team of 3 developers
- **Code Review, Troubleshooting and Finding Bugs**
- **Database Conception -** Relational database analysis and implementation.
- **APIs Design and Implementation**
- **Building and Maintaining Web Applications**
- **Working with Microservice Architectures**

**Tech Stack:** HTML, CSS, Bootstrap, JS, PHP, Laravel, REST, MySQL, Flutter, NodeJS, AdonisJS, NestJS, AWS

**FAXI (www.faxi.online)**

**SET 2019 - PRESENT                PRAIA, CABO VERDE**
Faxi is a online payment platform, which allows you to recharge your mobile phone, pay bills and buy tickets in a Web App and a Chatbot on Facebook Messenger.
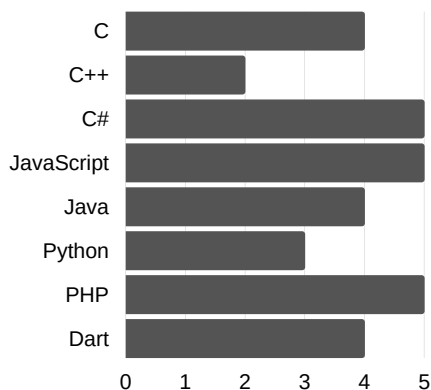
**FOUNDER AND SOFTWARE ENGINEER (SELF-EMPLOYED)**

**Role:** Product analyst and developer.

- **Analyst** - Requirements gathering and system analysis.
- **Database Conception**
- **APIs Design and Implementation**
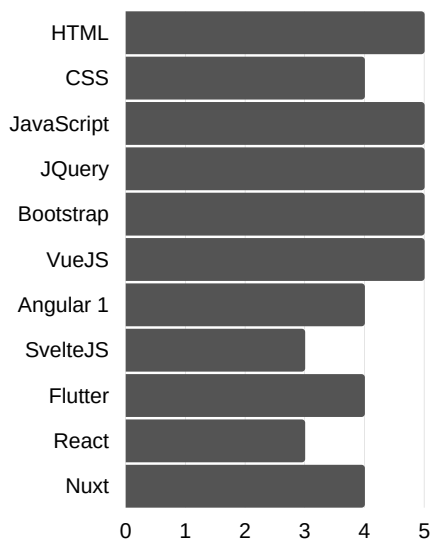- **Building and Maintaining Web Applications**

**Tech Stack:** HTML, CSS, Bootstrap, JS, VueJS, PHP, Laravel, REST, MySQL/MariaDB, Google Cloud
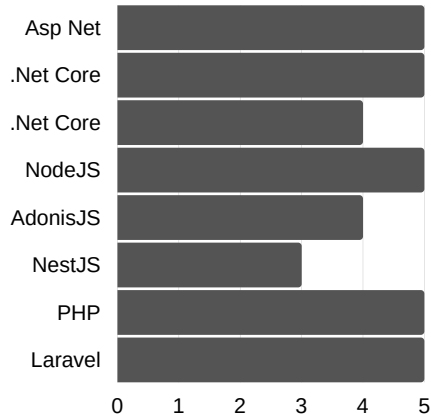
# SKILLS AND EXPERIENCES

## PROGRAMMING LANGUAGES

| Language | Level |
|----------|-------|
| C | 4 |
| C++ | 2 |
| C# | 5 |
| JavaScript | 5 |
| Java | 4 |
| Python | 3 |
| PHP | 5 |
| Dart | 4 |

## FRONTEND

| Technology | Level |
|------------|-------|
| HTML | 5 |
| CSS | 4 |
| JavaScript | 5 |
| JQuery | 5 |
| Bootstrap | 5 |
| VueJS | 5 |
| Angular 1 | 4 |
| SvelteJS | 3 |
| Flutter | 4 |
| React | 3 |
| Nuxt | 4 |

## BACKEND

| Technology | Level |
|------------|-------|
| Asp Net | 5 |
| .Net Core | 5 |
| .Net Core | 4 |
| NodeJS | 5 |
| AdonisJS | 4 |
| NestJS | 3 |
| PHP | 5 |
| Laravel | 5 |

## INTERBANK SOCIETY AND PAYMENT SYSTEMS - SISP (www.sisp.cv)

**OUT 2017 - JUL 2022**          **PRAIA, CABO VERDE**

SISP is a financial institution in charge of managing activities related to the development and use of means of payment in Cape Verde.

### IT SOLUTION DEVELOPER (JUN 2018 - JUL 2022)

**Role:** Analyst and developer of several web portals that facilitate the management of information and its sharing with main customers, such as banks, service companies and merchants.

- **Team Player** - Collaborates with a team of 6 developers in the development of different solutions for other departments.
- **Troubleshooting and Finding Bugs**
- **Object-Oriented Programming** - programming with C# and application of object-oriented concepts.
- **Database Conception**
- **APIs Design and Implementation** - development of several APIs to feed the web portals provided to customers and to feed third-party systems.
- **Building and Maintaining Web Applications** - development of web portals for external customers, creation of new modules to improve the company's central system.
- **Building Middlewares** - building of middleware to adapt protocols and facilitate integration with external clients.

**Tech Stack:** HTML, CSS, Bootstrap, JS, jQuery, VueJS, C#, Asp .NET WebForms, .NET Core, Oracle, PostgreSQL, SOAP, REST, NodeJS, PHP, Wordpress, Drupal

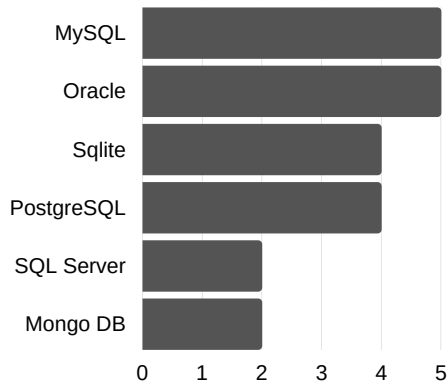### INTERNSHIP AS IT SOLUTION DEVELOPER (OUT 2017 - JUN 2018)

**Role:** Analyst and developer of the company's website, main service website and information management modules for the company's central system.

- **Team Player** - collaborates with a team of 4 developers in the development of different solutions.
- **Object-Oriented Programming**
- **Building and Maintaining Web Applications** - building Website, modules and improvement of existing ones.
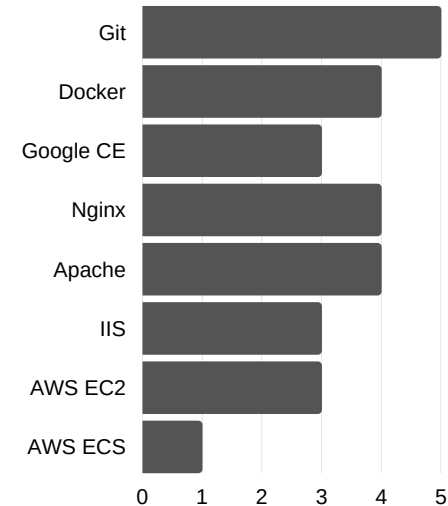
**Tech Stack:** HTML, CSS, Bootstrap, JS, jQuery, C#, Asp .NET WebForms, Oracle, SOAP, REST
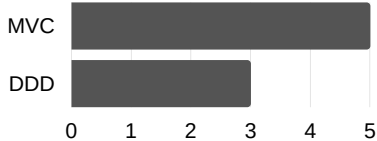
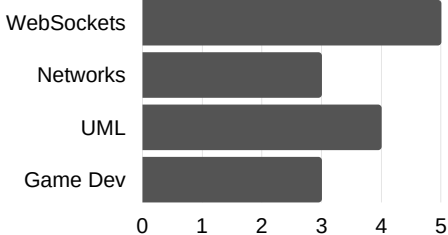**Contact:** Daniela Araújo (daraujo@sisp.cv)

## DATA BASE

| Skill | Level |
|---|---|
| MySQL | 5 |
| Oracle | 5 |
| Sqlite | 4 |
| PostgreSQL | 4 |
| SQL Server | 2 |
| Mongo DB | 2 |

## DEVOPS

| Skill | Level |
|---|---|
| Git | 5 |
| Docker | 4 |
| Google CE | 3 |
| Nginx | 4 |
| Apache | 4 |
| IIS | 3 |
| AWS EC2 | 3 |
| AWS ECS | 1 |

## DESIGN PATTERNS

| Skill | Level |
|---|---|
| MVC | 5 |
| DDD | 3 |

## OTHERS

| Skill | Level |
|---|---|
| WebSockets | 5 |
| Networks | 3 |
| UML | 4 |
| Game Dev | 3 |

### CHATRACE (www.chatrace.com)

**FEV 2021 - JUL 2021**  PRAIA, CABO VERDE

Chatrace is a SAAS that allow us to create chatbot for Messenger, Whatsapp, Telegram, Website and more.

**SOFTWARE ENGINEER (PART TIME)**

**Role:** Develop modules and features that add value to the platform.

- **Team Player** - work with a backend developer to build real-time communication modules for chatbots on clients' websites and in the platform's backoffice.
- **Building the Web Applications** - creation of modules and web plugins

**Tech Stack:** HTML, CSS, Bootstrap, JS, VueJS, PHP, Websocket, REST

**Contact:** António Fernandes (silfer.antonio@gmail.com)

### NHABEX (www.nhabex.com)

**DEZ 2016 - MAR 2018**  PRAIA, CABO VERDE

Nhabex is a innovative and differentiated solution for queue line management, that allow us to follow the queue line progress online.

**CO-FOUNDER AND LEAD PROGRAMMER (SELF-EMPLOYED)**

**Role:** Plan, design and develop the project that became my end-of-course project and today is a SAAS used by several companies in Cape Verde.

- **APIs Design and Implementation** - design all APIs for platform operation, including API for real-time notification of queue status.
- **Building and Maintaining Web Applications** - building the UI and integrate with the APIs.
- **Database Conception** - Relational database analysis and implementation.

**Tech Stack:** HTML, CSS, Bootstrap, JS, Angular 1, PHP, Websocket, REST, MySQL

**Contact:** Eloy Tavares (eloytavares@yahoo.com.br)

### BONAKO (www.bonako.com)

**DEZ 2016 - MAR 2017**  PRAIA, CABO VERDE

Bonako is a company that produce digital games and mobile applications, inspired by African folklore, stories, games and rich African culture.

**INTERNSHIP AS WEB DEVELOPER (PART TIME)**

**Role:** Web developer in charge to develop new website for Bonako.

- **Team Player** - collaborate with design team to create the web pages as expected
- **Building the Website** - create the company website from the scratch

**Tech Stack:** HTML, CSS, JS, PHP

**Contact:** Joelson Leal (joelson.leal@digital.cv )

# EDUCATION

**DEGREE IN COMPUTER SCIENCE AND ENGINEERING**
UNIVERSITY OF CAPE VERDE - UNICV (unicv.edu.cv)

2013 - 2017                                    PRAIA, CABO VERDE

**Study Area**

- Information Systems Programming


**HIGH SCHOOL**
SECONDARY SCHOOL ARMANDO NAPOLEÃO FERNANDES - ESANF

2007 - 2013                          ACHADA FALCÃO, CABO VERDE

**Study Area**

- Sciences and Technologies

# CERTIFICATES

**INTRODUCTION TO SCRATCH PROGRAMMING**
GREENSTUDIO
MAR 2017 - APR 2017                    PRAIA, CABO VERDE

**APPLIED DATA SCIENCE FOR DEVELOPERS/BIGDATA WORKSHOP**
OPENUP
MAI 2019                               PRAIA, CABO VERDE

**EMV FOR ACQUIRERS, ISSUERS AND PROCESSORS**
ARGOTECHNO
JUN 2019                               PRAIA, CABO VERDE

**MICROSOFT SECURE DEVELOPMENT LIFECYCLE (SDL)**
OPENUP
JUL 2019                               PRAIA, CABO VERDE

**PAYMENTS PROFESSIONAL BOOTCAMP CARD SCHEMES TO BLOCKCHAIN**
ELWIN SYLVESTER
OUT 2019                                        UDEMY

**EMV MODULE 1: A BEGINNER'S GUIDE TO CHIP CARD TRANSACTIONS**
HERVE ZENNER
OUT 2019                                        UDEMY

**GETTING STARTED WITH WEBASSEMBLY & EMSCRIPTEN**
RAY VILJOEN
JAN 2020                                        UDEMY

**GETTING STARTED WITH GIT AND GITHUB**
IBM
JUN 2022                                        COUSERA

**INTRODUCTION TO DEVOPS**
IBM
JUN 2022                                        COUSERA

**DOCKER ESSENTIALS & BUILDING A CONTAINERIZED WEB APPLICATION**
COURSERA PROJECT NETWORK
JUL 2022                                        COUSERA

**NESTJS ZERO TO HERO - MODERN TYPESCRIPT BACK-END DEVELOPMENT**
ARIEL WEINBERGER
AGO 2022                                        UDEMY

# AWARDS

**FIRST PLACE IN THE SOFTWARE ENGINEERING CONTEST**
CONTEST HELD BY THE UNIVERSITY OF CAPE VERDE
(UNICV) IN THE CONTEXT OF THE INFORMATICS AND
MULTIMEDIA TECHNOLOGY WEEK (TIM), CONTESTED WITH
A COMPUTER CONTROL PROJECT THROUGH VOICE
COMMANDS.
MAI 2016                                        TIM WEEK - UNICV


**SELECTED TO REPRESENT CAPE VERDE ON WEBSUMMIT
2021**
10 STARTUPS WERE SELECTED TO BE PART OF THE
GOGLOBAL PROGRAM OF THE DIGITAL CABO VERDE
INITIATIVE.
NOV 2021                                        LISBOA, PORTUGAL

# RELEVANT PROJECTS

## BONAKO WEBSITE
DEVELOPED AT BONAKO
Website for the company BONAKO to disclose the products developed, the services provided and other information.
**My Role:** Programmer
**Tech Stack:** HTML, CSS, JS, PHP

## NHABEX
DEVELOPED AS A PERSONAL PROJECT
Web and Chatbot Solution for Monitoring Online Queues in Real Time and printing tickets remotely.
**My Roles:** Co-founder, Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, JQuery, Angular 1, Bootstrap, PHP, REST, MySQL, WebSocket

## PORTAL FOR SERVICE ENTITIES
DEVELOPED AT SISP
Portal aimed at companies from different sectors of activity that provide services on Rede vinti4.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, JQuery, Bootstrap, C#, ASP NET WebForms, SOAP, ORACLE

## KNOWLEDGE BASE
DEVELOPED AT SISP
Centralized module to accumulate and manage information about the most diverse services and procedures of SISP.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, JQuery, Bootstrap, C#, ASP NET WebForms, ORACLE

## EASYLINK VINTI4
DEVELOPED AT SISP
Service for creating direct payment links for sales of merchants' products and services.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, JQuery, Bootstrap, C#, ASP NET WebForms, SOAP, ORACLE

## SEND RECEIPT VIA SMS
DEVELOPED AT SISP
Sending the link/url of the purchase receipt and other operations from a POS terminal to the customer's mobile phone via SMS.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, JQuery, Bootstrap, C#, ASP NET WebForms, SOAP, REST, ORACLE

## PORTAL FOR DIGITAL CERTIFICATES
DEVELOPED AT SISP
Portal for requesting digital certificates and issuing timestamp seals for documents.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, JQuery, Bootstrap, C#, .NET Core, SOAP, ORACLE

## PAYMENT SERVICES MIDDLEWARE
DEVELOPED AT SISP
Intermediary that receives payment information sent by TCP/IP and sends it to the Entities' WebServices by REST and SOAP according to the configurations made.
**My Roles:** Analyst, Programmer
**Tech Stack:** C#, ASP NET, TCP/IP, REST, SOAP, ORACLE

### WORDPRESS PLUGIN TO ACCEPT PAYMENTS ON REDE VINTI4
DEVELOPED AT SISP
Development of a WordPress plugin that is easily installed and integrated with Woocommerce.
**My Roles:** Analyst, Programmer
**Tech Stack:** PHP, Wordpress, Woocommerce

### DRUPAL PLUGIN TO ACCEPT PAYMENTS ON REDE VINTI4
DEVELOPED AT SISP
Development of a Drupal plugin to facilitate the implementation of payments with this CMS.
**My Roles:** Analyst, Programmer
**Tech Stack:** PHP, Drupal, Commerce Kickstart

### INTEGRATION OF ELECTRA'S PREPAID SERVICE IN REDE VINTI4
DEVELOPED AT SISP
Integration and payment acceptance of Electra's Prepaid service (electricity company) in the Rede vinti4.
**My Roles:** Analyst, Programmer
**Tech Stack:** C#, ASP NET, TCP/IP, SSL, ORACLE

### FAXI
DEVELOPED AS A PERSONAL PROJECT
Online Payment Platform, which allows you to recharge your mobile phone, pay invoices and buy tickets in a Web App and in a Chatbot within Facebook Messenger.
**My Roles:** Founder, Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, JQuery, VueJS, Bootstrap, PHP, REST, MySQL, Laravel, Google Cloud

### REAL-TIME MULTICHANNEL INBOX
DEVELOPED AT CHATRACE
Multichannel conversation module that allows managers to talk to customers and help the chatbot respond to customers.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, VueJS, Bootstrap, PHP, REST, MySQL, WebSocket, Rachet(socketo.me)

### CHATBOT FOR WEB
DEVELOPED AT CHATRACE
Plugin that allows managers to integrate a chatbot on websites, in a simple and practical way.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, VueJS, Bootstrap, PHP, REST, WebSocket

### API FOR DIGITAL CERTIFICATE REQUEST
DEVELOPED AT SISP
API for digital certificate requests made available to the Ministry of Finance, enabling taxpayers to request, receive and use certificates from the Ministry's system.
**My Roles:** Analyst, Programmer
**Tech Stack:** HTML, CSS, JS, Bootstrap, REST, SOAP, Oracle, PostgreSQL

### 3DS PROTOCOL MIDDLEWARE
DEVELOPED AT SISP
Middleware to allow the merchants to accept 3DS transaction without implementing it in their platforms.
**My Roles:** Analyst, Programmer
**Tech Stack:** PHP, SQLITE

## 123MILHAS FEATURES
DEVELOPED AT DEVNOLOGY
Creation and improvement of features in 123milhas.com platform.
**My Roles:** Programmer
**Tech Stack:** PHP, Laravel, MySQL, Docker

## OTA MIDDLEWARE FOR CARROS 123MILHAS
DEVELOPED AT DEVNOLOGY
Development of a middleware to convert the API at carros.123milhas.com to OTA Standard in REST format.
**My Roles:** Tech Lead, Programmer
**Tech Stack:** Typescript, NodeJS, AdonisJS, Docker, AWS EC2, AWS ECS

## 123MILHAS BACKOFFICE API
DEVELOPED AT DEVNOLOGY
API Development for Backoffice modules, for authentication, user, groups and access management.
**My Roles:** Tech Lead, Programmer
**Tech Stack:** Typescript, NodeJS, NestJS, MySQL, REST, Docker, AWS

## 123MILHAS BACKOFFICE FRONTEND
DEVELOPED AT DEVNOLOGY
Development of Web Frontend module to authenticate and management of users, groups and access.
**My Roles:** Tech Lead, Programmer
**Tech Stack:** Flutter, REST, AWS