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EXPERIENCE

STACKSPOTAI (AI.STACKSPOT.COM) | FULL-STACK ENGINEER

Apr 2024 – Currently

- Developed a AI Developer assistant using Retrieval Augmentation (Langchain, PGVector, PymuPDF), LLMs and Embeddings models (OpenAI).
- REST APIs using FastApi, sqlalchemy, Redis.
- Services orchestration and deploy with Docker, Github Actions and Terraform.
- Monitoring and observability with Datadog, Graphana, Metabase Cloudwatch and Langsmith.
- Cloud-based solutions using Kafka (AWS MSK), SNS, Lambda functions, APIGateway, DynamoDB.
- Front-end UI components with React, react-redux, react-router, MUI.
- Unit&Integration tests with pytest, jest and cypress.
- BFF services using AWS lambda functions, APIGateway and DynamoDB.

VORTIGO (PLATFORM.VEASE.AI) | FULLSTACK ENGINEER

Apr 2024 – Nov 2024

- RAG-based Chatbot from PDF documents (OpenAI, Bedrock, PGVector, Langchain, PymuPDF).
- REST APIs using FastApi, pymongo, Redis.
- Front-end with NextJS, shadcn, tailwind.
- AWS Lambda functions for embedding indexing from PDF documents integrated with SNS and S3.
- Services orchestration and deploy with Docker, EKS and Azure pipelines.

FTLNETWORKX | PYTHON DEVELOPER

May 2024 – Jul 2024

- Platform for in-house router's appliances network data analysis.
- Implemented services to collect network data from OpenSense API on FreeBSD and store to ClickHouse database and Graphana, using FastApi.
- Create Graphana dashboards with aggregations on top of ClickHouse records.

MAGIC PAYMENTS (MAGIC-21.MINTLIFY.APP) | FULLSTACK WEB DEVELOPER

Aug 2023 – May 2024

- Payment gateway for transactions between bank checking accounts.
- Full-Stack Web development with Django, NextJs, shadcn and TailwindCss
- REST APIs with Django Rest Framework.
- Webhooks integrations with Dwolla and Plaid for banking operations.
- CI/CD pipelines with Docker and Github actions.
- Unit tests with pytest and jest.

UNDERWRITER LABS (UL.COM) | FULLSTACK WEB DEVELOPER

March 2023 – Aug 2023

- Full-Stack Web development with NodeJs, Vue (vuetify), Quasar and TailwindCss.
- Vue.js to develop dynamic and interactive user interfaces.
- Configuration of auto-scaling groups, load balancers and AWS services like EC2, S3, RDS, and Lambda functions.

EDUCATION

MASTER'S DEGREE IN COMPUTER SCIENCES

UNIVERSIDADE FEDERAL DO AMAZONAS, BRASIL
(UFAM UFAM.EDU.BR)

March 2015 - March 2017

NANODEGREE MACHINE LEARNING ENGINEER

UDACITY

Jan 2019 - Jan 2020

BACHELOR'S DEGREE IN INFORMATICS

UCI (HAVANA, CUBA)

Jan 2010 - Feb 2014

SKILLS

PROGRAMMING

9+ years:

Python • JavaScript • Bash

5+ years:

C++ • PHP • TypeScript • LaTeX

TECHNOLOGY

Git/Github • AWS • Linux

React • NextJs • Angular • Vue • ExtJs

Django • FastApi • Flask • Tornado

EKS • CloudWatch • Lambda • DynamoDb

• APIGateway • SNS • SQS • SAM •

Localstack • MKS • RabbitMQ

Cypress • Jest • Pytest

Yii • Symfony

MLFlow • Keras • Tensorflow • pandas • numpy

Docker • Kubernetes • Github Actions •

CircleCI • Terraform

Datadog • Graphana • Metabase •

ElasticStack

MongoDb • Postgres • MySQL •

Clickhouse • DyamoDB • Redis

MANAGEMENT

Jira • Confluence • Trello

Scrum • Kanban • RUP • Xtreme

Programming

Loom • Notion • Signal

LANGUAGES

English • TOEFL C2 • Advanced

Spanish • Native

Portuguese • Advanced

PASSWORDBOSS (PASSWORDBOSS.COM) | FULLSTACK WEB DEVELOPER

Jun 2021 – March 2023

- Secure data store and sharing encryption platform.
- Full-Stack Web development with Django, NextJs and Tailwindcss.
- Progressive web-app implemented with workbox, DexieDB and Electron.
- REST APIs using Node.js and Django.
- Asymmetric encryption algorithms using PGP.
- Leveraged Vue.js, Next.js and Tailwind CSS to develop dynamic and responsive user interfaces, collaborating closely with UX/UI designers.
- CI/CD pipelines using CircleCI, Docker, and GitHub Actions.
- Streamlining the development workflow and ensuring seamless integration of new features and bug fixing.
- Docker containers for packaging and deploying applications to AWS infrastructure.
- AWS services including SNS, S3, EC2, Lambda, DynamoDB

MOTOROLA R&D (ELDORADO.ELDORADO.ORG.BR) | MACHINE LEARNING ENGINEER

Oct 2020 – Jun 2021

- Tech lead and consultant for Motorola Camera Team.
- Computer Vision and AI for image enhancement and reconstruction (deblurring, denoising, demosaicing, super-resolution) for Motorola phone's camera pipeline.
- Serverless solutions with Azure functions and Cosmos DB.
- Edge AI for mobile phones: MLFlow, Elastic Stack, PyTorch, Keras, Tensorflow, SNPE, Jupyter, OpenCV, Pandas, Numpy, Singularity, Docker.

SAMSUNG R&D (SIDIA.SIDIA.COM) | MACHINE LEARNING ENGINEER

Feb 2018 – Oct 2020

- Tech Lead of New Business Team.
- Practical, highly-scalable, AI & Machine Learning pipelines for Image Classification, Face Recognition, Speech Recognition, Natural Language Processing and Reinforcement Learning.
- Distributed architectures with Kubernetes, ZeroMQ and RabbitMQ.
- CI/CD with Jenkins, Docker and Azure Pipelines.
- Edge AI on Raspberry-Pi, mobile phones and web servers.
- Development and testing of AT&T 5G router operating system.
- Stack: Keras, Tensorflow, Jupyter Notebooks, OpenCV, Pandas, Rasa, Spacy, Numpy, h5py.

TRIAD SYSTEMS (ITRIAD.ORG.BR) | FULL-STACK WEB DEVELOPER

Jan 2016 – Feb 2018

- Analysis, development and support of ALCATEL's ERP: GlobalTools.
- LAMP Stack Agile web development with PHP's Symfony, Django, Yii2, Angular 4, Bootstrap, JQuery, CSS3, HTML5.
- Project lead, architect and configuration management.

UCI (UCI.CU) | SOFTWARE ENGINEER

Sept 2014 – Jan 2016

- Development, Test and Documentation of Cuban GNU distro: Nova.
- Analysis, Development and Testing of Cuban Android ROM: NovaDroid.
- Test Automation with Pytest. C++, Python, Linux shell scripting, Android.
- Development of Enterprise software solutions applied on health care used on Cuba's hospitals.
- Intelligent agents nets implemented with Java JADE Framework for Medical Diagnosis and Automatic Schedule Planning.
- Software Solutions for Medical Imaging (OpenCV, Django).
- Stack: ExtJs, HTML, CSS, Symfony (PHP), Django, Java JADE, Python.

COURSES & CERTIFICATIONS

CPA C++ CERTIFIED ASSOCIATE PROGRAMMER

verify.openedg.org Code: BQ3G.bYgY.Tnf5
May 2022

MACHINE LEARNING ENGINEER NANO-DEGREE

confirm.udacity.com/2FCEGTAE
Dec 2019

NATURAL LANGUAGE PROCESSING (NLP) WITH PYTHON NLTK

ude.my/UC-KXAoIKSD
Feb 2018

SCRUM DEVELOPER CERTIFIED

SCRUMSTUDY: 671161
Nov 2018

AGILE TESTER (CTFL-AT)

BSTQB: 18-CTFL-AT-08341-BR(V.2014.BR)
Feb 2019

CERTIFIED TESTER FOUNDATION LEVEL (CTFL)

BSTQB: 18-CTFL-08070-BR(V.2011.BR)
Nov 2018

ENGLISH AS A FOREIGN LANGUAGE INSTITUTIONAL TESTING PROGRAM

TOEFL: C1 527 ADVANCED

HONORS & AWARDS

SECOND BEST PAPER

BRASILIAN SYMPOSIUM ON INFORMATION SECURITY
sbseg2017.redes.unb.br/index.php/premios/
Nov 2017

PUBLICATIONS

AUTOMATIC CLASSIFICATION OF
PTERYGIUM-NON PTERYGIUM IMAGES
USING DEEP LEARNING

AUTOMATIC CLASSIFICATION OF LIGHT
FIELD SMEAR MICROSCOPY PATCHES USING
CONVOLUTIONAL NEURAL NETWORKS FOR
IDENTIFYING MYCOBACTERIUM
TUBERCULOSIS

IMPROVING THE DETECTION OF
METAMORPHIC MALWARE THROUGH DATA
DEPENDENCY GRAPHS INDEXING

NEURO-FUZZY PROCEDURE WITH
APPLICATION IN INFERENTIAL SENSOR