

Joao Sa

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Paris, France

Experience

Senior Software Developer

RealCrowd · Remote

May 2016 - Present

Returned to *RealCrowd* responsible for architectural decisions and leading new efforts. Their commercial real estate crowdfunding marketplace has funded over \$6.5 billion in deals.

- Led development effort for new platform aimed at financial advisors (.NET Core).
- Rewrote encrypted document storage system, resulting in 90% savings in infrastructure costs (*Azure Blob Storage, Azure Key Vault*).
- Migrated legacy browser client to newer stack (*Typescript, Vue*).
- Responsible for administration of cloud infrastructure (*Azure, Terraform, Docker, Cloudflare, Loggly*).
- Migrated legacy authentication to new custom OpenID Connect implementation (*OpenIddict*).

Software Development Consultant

Databela Technologies · Belo Horizonte, Brazil

May 2015 - May 2016

Owner of software development consultancy. Consulted as team lead for project BIC (*Integrated Citizen Database*), a government initiative, to deduplicate 70 million citizen records from disparate sources.

- Applied data analysis and machine learning for detecting duplicate records (*Python, Spark*).
- Consulted for several other startups in diverse segments (bioinformatics, international trade facilitation, online learning).
- Implemented an ETL pipeline for linking records across multiple government data sources (*C#, SQL Server, Elasticsearch*).

Software Developer

RealCrowd · Remote

Oct 2014 - May 2015

Developer at a *YCombinator* backed commercial real estate crowdfunding startup nimble diving into all aspects of product.

- Worked on web application focusing on security, reliability, and scalability (*C#, .NET, Redis, Cosmos DB*).
- CSS styling maintaining cross-browser compatibility (*Javascript, Angular*).
- Development of frontend client with responsive pipeline (*Jenkins, Azure DevOps*).

Software Development Consultant

Upper West Soluções · Belo Horizonte, Brazil

Dec 2013 - Oct 2014

Worked on the BIC (*Integrated Citizen Database*) government initiative for the state of Minas Gerais' Department of Planning and Management (SEPLAG)

- Conducted exploratory data analysis and utilized state of the art algorithms for record linkage from scientific literature.
- Wrote extensive technical documentation and mentored integration projects.
- Implemented and optimized a citizen record query API and a reference client (.NET, SQL Server, SCSS, Angular).

DevOps Engineer

EloGroup · Belo Horizonte, Brazil

Jul 2013 - Jun 2014

Responsible for cloud infrastructure and supporting the developer team for a large management consulting company with over 300+ clients and 500+ consultants.

- Development of various webapps to aid developers in deployment of multiple Rails apps.
- Usage of multiple DevOps tools (*Capistrano, Vagrant, Packer, Docker, Drone and KVM*).
- Usage of multiple AWS products (*EC2, S3, SES, SNS, Route 53, IAM and CloudWatch*).

Systems Analyst

MAV Tecnologia · Belo Horizonte, Brazil

Feb 2012 - Aug 2013

Designed, developed, and implemented solutions for enterprise network management and hosting provider.

- Worked on development of a locked down Linux network gateway appliance (*Lua, SELinux, iptables, tc, route*).
- Automated and managed deployment of datacenter Linux cluster (*Puppet, libvirt, MySQL, MongoDB, Dovecot, DRBD, Ceph*).

Skills

Languages

Typescript / Javascript, C#, Python, Golang, Lua, C

Databases

SQL Server, PostgreSQL, Cosmos DB, MongoDB, Elasticsearch, Redis

Backend

.NET Core, Node.js / Express, Django / Flask

DevOps

Linux, Azure, AWS, Docker, Kubernetes, Terraform

Frontend

Vue, Tailwind, D3.js, Angular

Data Science and ML

HuggingFace, Tensorflow (Keras), spaCy, scikit-learn, pandas, Spark

Education

Bachelor, Computer Science

Pontifical Catholic University of Rio Grande do Sul (PUCRS)

Certificates

Natural Language Processing Specialization

DeepLearning.AI

Languages

English · Native

Portuguese · Native

French · Professional

Links

joaomsa.com

github.com/joaomsa

linkedin.com/in/joaomsa