

Software Developer III Software Developer III Converse, TX Software Developer and aspiring Data Scientist :) Authorized to work in the US for any employer Work Experience Software Developer III Rackspace - San Antonio, TX June 2017 to January 2018 USA) Area: Email Platform, Software Dev Responsibilities: Development of internal tools necessary for the hosted email platform provided to Rackspace's clients. Mostly extending rest services with Python, Fask and MySQL.

\*(Technologies: Python, Flask, Redis, Linux) Senior Python Developer Zalando AG - Berlin, DE October 2013 to June 2016 Berlin - Germany) E-commerce Company for fashion products Area: Platform Tooling, Software Dev Team Responsibilities: Development of internal software tools necessary to monitor and react to problems in Zalando's infrastructure. Web apps with Python, PostgreSQL as DB backend (sometimes SQLAlchemy as ORM). High performance apps based on distributed message passing architecture using Redis as message broker, Python with multiprocessing for workers. Code available at: <https://github.com/zalando-zmon/zmon-worker>

\*(Technologies: Python, PostgreSQL, SQLAlchemy, Redis, Linux) Senior Backend Developer Molecular Health GmbH December 2012 to October 2013 Heidelberg - Germany) Startup Company working on Personalized Medicine Tools Area: Research and Development Responsibilities: Backend development of web applications that leverage clinico-molecular databases and a curated knowledge-base to assist medical professionals on selecting treatments that adapt to the genomic profile of the patient. The work involves creating code for querying data stored in SQL databases, often using SQLAlchemy ORM models. Also tackling specific problems related to the Pylons web framework, like caching results, authentication and authorization.

Software developer at Axpe Consulting SL Python - PostgreSQL - Madrid, ES February 2012 to December 2012 Madrid) Consulting Services for Telefonica R+D (Telefonica Digital - Future Comms Area) in Spain Area: Research and Development Responsibilities: Analysis and development of a distributed architecture for real time audio processing to be coupled with third party components in a voice messaging platform. The work involves the connection to several external APIs (json-rpc, xml-rpc, or RESTfull) and the development of our own connection APIs. The work also required heavy use of Python's multiprocessing capabilities, and development of

STOMP clients using stomp.py lib. Some work on optimizing our services running on Linux to achieve optimum performance. \*(Technologies: Python - Django - ActiveMQ - STOMP - MySQL - Linux) Software developer Paradigma Tecnológico SL - Madrid, ES May 2011 to October 2011 Madrid) Startup Software Company Area: Software Development Responsibilities: Development of backend services and expanding the backend infrastructure/servers to meet an ever growing web traffic volume. Maintenance and improvement of web scrapping services in production and several Lucene/Solr engines used to store final results. In charge of migrating some components of the infrastructure to Amazon EC2 platform to achieve more scalability. \*(Technologies: Python - Django - Java - Lucene/Solr - MySQL - Monit - Linux) Software developer Blue Telecom SL - Madrid, ES January 2011 to April 2011 Madrid) Consulting Services for Ericsson R+D. Spain Area: Research and Development Responsibilities: Collaborate in the development of several Ericsson's product for network traffic identification and filtering. Use of heuristic and machine learning methods like clustering for identification and classification of network traffic. \*(Technologies: C - Python - Perl - MySQL - Linux) Software developer Calvi Systems SL - Madrid, ES April 2009 to January 2011 Madrid) Startup Software Company Area: Research and Development Responsibilities: I was in charge of studying new innovative solutions to improve the company's software products. In an agile way, proposed ideas were written to a short report, discussed with other members of the team, and put in practice in the development of a functional prototype to be shown as proof of concept. One line of research was the use of Lucene keyword based search engine to index hierarchical structured data, and the use of JavaScript and HTML5 canvas tag to present the search results in a graphical and intuitive way embedded in a PHP powered web site. Another line was the design of data processing architecture for a recommendation system using CouchDB as persistence layer. \*(Technologies: PHP - Python - Java - HTML and CSS - MySQL - JavaScript - jQuery - Processing.js) Freelance Developer Madrid, ES March 2007 to April 2009 Madrid) Small and medium software companies in Madrid Area: Freelance Software consulting Responsibilities: As a freelance I was involved in many projects, but most frequent activities were: - LAMP development on custom ERP/CRM solutions. - Linux

Infrastructure security hardening, critical system monitoring, and deploying data backup solutions. -

Teaching courses on Linux/Unix security and administration for private Academies.

\*(Technologies: PHP - Python - HTML and CSS - MySQL - Linux) Researcher Grant Centro

Nacional de Biotecnología. CNB. (Madrid) Two short stayings of 3 Centro de Estudios Científicos

del CSIC month each during 2005 Area: Computational Systems Biology Group and 2007

Responsibilities: I was awarded with a Spanish Government's Research Grant to come to Spain to

work for a 6 months period at the National Center of Biotechnology (CNB) on the Computational

Systems Biology Group (CNB-CSIC), under the supervision of Dr. Florencio Pazos. The work

subject was to develop a Java program for visualization of large protein networks. \*(Technologies:

Java - OpenGL - XML processing - Linux) Scientific Researcher Centro Nacional de Bioinformática

May 2003 to December 2006 3 years BIOINFO. (Cuba) Scientific Research Center for

Pharmaceutical Industry. Area: Software development and research in protein modeling

Responsibilities: Development of programs for scientific data treatment, prediction and visualization.

Use of machine Learning Techniques for prediction problems. Also I worked as consultant for other

scientific centers which needed guidance on how to store and process huge amounts of biological

data coming out of automated biological experiments. \*(Technologies: C - Python - Java - XML

processing - MySQL - Linux) Scientific Researcher Centro de Ingeniería Genética September 2000

to May 2003 y 3 years Biotecnología. CIGB. (Cuba) Pharmaceutical Industry. Area: Software

development and research in protein modeling Responsibilities: Development of algorithmic

solutions for problems arising in biological data studies, like dynamical programming of sequence

alignment of proteins or DNA, or geometrical modeling of protein folding and docking in 3D space.

Also use of Machine Learning techniques (specially supervised learning like Neural Nets and

Support Vector Machines) for building predictors of molecular binding. \*(Technologies: C - Python

- Java - Linux) Technical Proficiency Python Strong experience with Python for a wide range of

tasks, Level: Advanced from doing quick and dirty data Jujutsu, to building multiprocessing

systems. My experience with the Django framework has mostly involved the development of simple

Rest APIs. Web programming Experience developing server side web apps with Python, MySQL,

Ajax, MySQL+(PHP || Python). Also some experience in jQuery, HTML, CSS, frontend web programming using Ajax, Javascript and Processing.js jQuery. Level: Medium Java SE Java desktop Apps for graphical presentation of complex Level: Medium scientific data using JavaDD and J;GL libs. Data mining with Machine learning using the algorithms collection of Weka software suite. C Development of high performance scientific programs in Level: Medium C using the GNU environment: GCC+vi+gmake+gdb. Linux System Wide experience in installation, configuration and Administration management of Linux services: Apache, MySQL, Level: Medium netfilter, etc. Also experienced deploying monitoring and backup systems. In depth experience with common Linux distros: Debian, RedHat, Suse. Familiarity with Amazon EC2 platform to create failure-tolerant and scalable service infrastructures. Good level of bash to automate tasks, make start/stop scripts, set cron jobs, etc. Some use of Perl. Education Bachelor's in Nuclear Physics Instituto Superior de Ciencias y Tecnologia Skills Java, C, Python, Linux Links <https://github.com/alfre2v>

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