Curriculum Vitae for Alfred Alocias Mariadason

Personal information

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Born:	19.01.1994	Nationality:	Norwegian

Summary

I have a masters degree in Computation Physics from the University of Oslo, completed in 2018. My project revolved around many-body quantum mechanical systems. During the project I gained a good set of skills with knowledge in numerical methods, efficient algorithmic approaches, symbolic computations, high-performance- and parallel computing and programming in several different languages. I have gained skills in software development and also data analysis from the different projects in immunotherapy and datamodel building in powersystems.

Technical skills

Frameworks	Numpy, Scipy, Pandas, Tensorflow, Pytorch, Keras, Sci-kit-Learn, Pybind11, Cython, Pylint, Black, Qt, Eigen, Armadillo, MPI, openmp, Cuda, Boost, Lapack, Blas, Django, Docker, Openshift, cognite-sdk
Languages	Python, C++, C, Markdown, reStructuredText, Vimscript, Bash, Java, Common Lisp, Clojure, TeX/Latex, Go, Javascipt, sparql
Tools	Git, gdb, Ipython, pdb/ipdb, Make, CMake, Vim, Linux

Education

2018	M.Sc. in Computational physics from the Faculty of Mathematics and Natural Sciences, University of Oslo. Title of thesis: "Quantum Many-Body Simulations of Double Dot System". Supervisor: Morten Hjort-Jensen
2016	B.Sc. in Physics, Astronomy and Meterology, University of Oslo.

Professional experience

2018	Consultant at Expert Analytics
2014 – 2018	Private tutor for Studenthjelp Privatundervisning

Languages

English	Fluent
Norwegian	Native, fluent

Personal skills

Problem solving	Learning new methods and applying them to new and interesting problems is a passion I have kept since I started my studies in 2013. Everything from digging into complex algorithms, applied mathematics and everything associated to solving the complex problems which arise are skills I have gained through having a genuine interest in solving problems and learning new tools and methods.
Programming	I enjoy programming both professionally and in my spare time. My skill set is mostly in Python and C++, but I have been tinkering with different languages such as Java, Fortran, Perl, Lua and JavaScript, as well as tinkering in linux and fixing my tools. Escpesially my vimrc file.

Some interests and hobbies

Miscellaneous	Playing the Bass, Playing the Guitar, Cooking, Gaming, Programming

Extended descriptions of selected projects

Activity	Consultant at Statnett SF
Role	Consultant
Staffing	4 developers, project management and one domain specialist
Volume	100 %
Description	Create software for fully automated extraction of data from Statnett SF platforms into Cognite Data Fusion (CDF) platform. The goal was to build a data model which captures contextual information about components in the powergrid and the electrical connectivity. The work was mainly R&D with proof of concept solutions and integrating said solutions into a clean codebase and deploy on openshift. The work also involved integrity checks of the data stream into CDF.
Tools	python, pandas, numpy, docker, openshift, sparql, cognite-sdk

Activity	Software Developer for OncoImmunity
Period	2018-2019
Role	Consultant
Staffing	8 developers
Volume	100 %

Description	OncoImmunity develops software in bioinformatics with purpose of improving the precision of imunotherapy. My role was to further develop existing code on machine-learning methods which used genomic data and also help with making the code ready for production and deployment by integrating code between C++ and Python.
Tools	Python, Keras, C++, Pybind11, Cython