

## 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.

### Technical skills

Frameworks	Armadillo, Eigen, MPI, Openmp, Blas, Lapack, Cuda, Numpy, Sympy, Scipy, Scikit-Learn, Pybind11, Keras, Tensorflow, Cython, Matplotlib, Qt
Languages	Python, C++, C, Common Lisp, MATLAB, Vimscrip, TeX/LaTeX, Markdown
Tools	Git, CMake, Vim, Qt Creator, Gdb, 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 Meteorology, University of Oslo.'

### Professional experience

2018	Consultant at Expert Analytics
2014 – 2018	Private tutor in 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.

## Some interests and hobbies

Personal	Playing the Bass, Playing the Guitar, Gaming, Programming
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## Extended descriptions of selected projects

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