- **GitHub** github.com/thomaschericka l
- **Azure DevOps** dev.azure.com/thomaschericka l
- **HackerRank** hackerrank.com/thomaschericka l
- **TopCoder** topcoder.com/thomaschericka l
- **Kaggle** kaggle.com/thomaschericka l
- **Geeks 4 Geeks** geeks4geeks.org/thomaschericka l
- **CodeWars** codewars.com/thomaschericka l

Thomas Cherickal

Python-Julia-Go

Soft Computing Developer

Test-Driven Development

Clean Code Complete 2

The Pragmatic Programmer

Refactoring Design Patterns

ML & RL & DL & AI & Ludwig

GA & EP & EA & GP & Accord

Quantum Computation & AI

Open Source & Git & GitHub

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- **Medium** medium.com/@thomascherickal
- **CodersRank** codersrank.io/thomascherickal
- **StackOverflow** stackoverflow.com/thomascherickal
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ABOUT ME

Python Developer who is proficient in programming with a wide breadth of tech knowledge currently exploring various applications of **machine learning, deep learning, artificial intelligence, genetic algorithms, evolutionary algorithms, and natural language processing**. I am looking for a position as a **Python Developer in Soft Computing Platforms.** I can also work in **Julia** and am currently learning **Go. Important: Please check out the link in the footer in detail.**

EXPERIENCE

4W Software Technologies, Chennai (Platform: InterSystems Cache 2016) **(Jan-2016 – Feb-2017)**

1) In charge of developing **4W Version Control System** for company use across 6 projects. Implemented a Subversion (SVN) add-in to Cache Studio IDE using **Source Control hooks** provided by **InterSystems**.

2) Was part of the interview board from the very first day of joining the company. Since then **handled Round 3 (Technical Round)** of the 4W four-round Recruitment Interview Process. (Round 4 (final) was the **CEO**). **Notably, candidate final selection rates (by the CEO) went up from 10% to 80%.**

3) Was selected to be **Team Lead (TL)** at the time of training itself. Handled the **SurgiDat project** for one year, for maintenance issues and solving problems **for eight live project in-production locations** from New Zealand to the USA.

4) Debugged **a Linux proof-of-concept** version of the **SurgiDat project** in case server changes were to be required due to prohibitive costs of proprietary server platforms and the success of open source software.

5) **Automated** the development, tests, and builds of the completed project on which maintenance was being done by creating scripts to automate builds resulting in an increase in project reliability and consistency.

6) Managed a team of ten people (seven developers, three testers) for one year running. **Handled conflicts and disagreements** between team members on multiple occasions. **Developers and testers were at loggerheads often.**

7) **Debugging and fixing persistent bugs during teamwork** or when aid was solicited. InterSystems Cache is a complete enterprise solution hence work varied from application to web to utility and open source development.

8) **Helped with other projects** in the company that had run up against serious bugs or unresolvable technical Issues. Debugged the SMTP functionality in a Java app, improved performance by profiling, and **added unit tests**.

SKILL SET

- **Python**
- **Julia**
- **Quantum Computation**
- Artificial Intelligence
- Machine Learning
- Jupyter Notebooks
- MS SQL Server
- Scikit-learn Stack
- **Genetic Algorithms**
- **Optimization**
- **Neural Networks**
- **Google Data Studio**
- **Open Source**
- Agile Methodologies
- **Clean Code**
- **Clean Architecture**
- **Code Complete**
- Unit Testing
- Design Patterns
- DevOps
- **Git & GitHub**
- Subversion
- DVC
- Self-Documenting Code
- Test-Driven Developer
- **Quantum AI**
- **Quantum Computation**
- **Test-Driven Development**
- Dynamical Systems
- Chaos & Complexity Theory
- **Excellent Communication**
- **Public Speaking Skills**
- **Team Player**
- **Highly Creative**
- **Empathetic**
- **Excellent Writing Skills**
- **No Problem with Accents**
- **Remote Collaborator**
- **Excellent Listener**
- **Discreet**

https://www.youth4work.com/y/undoubtedlythomas/thomas-mathew-cherickal-talents

PROJECTS

- https://github.com/thomascherickal/Coding-Portfolio
  When I first started learning TensorFlow and Keras I was advised to do a few projects to improve my abilities as an ML engineer. This portfolio consists of Python, Sonar Classification, MNIST and even a Julia project.
- https://github.com/thomascherickal/Applied-Distributed-Parallel-Processing
  My undergraduate final semester project. Parallelized a neural network over 8 separate computers and did Sonar Classification with 81% accuracy. Also did some high-performance computation like calculating 8 million digits of pi.
- https://dev.azure.com/thomascherickal/Quantum-Metaheuristics
  Genetic Algorithms and Evolutionary Computation framework is implemented with a difference – one level of the algorithm is based on quantum computing. Quantum Genetic Algorithms have been around since 1998 but I hope to make a significant breakthrough in this one.

OPEN SOURCE

- https://github.com/thomascherickal/cpython
  The open source implementation of the easiest language in the world written basically in C and some higher level libraries running on Python that act as C wrappers.
- https://github.com/thomascherickal/julia
  The data scientist's dream – a language with the ease of Python and the performance of C++. Julia is still not too widely used, but as its open source contributions add up, it can only increase in popularity.
- https://github.com/thomascherickal/ParallelAccelerator.jl
  A high-performance MPI accelerator built by Intel Labs. Excellent performance speed-ups in many scientific and computational scenarios. Also, official Intel technology.
- https://github.com/thomascherickal/qiskit
  Open source IBM Python library for computing with noisy intermediate quantum circuits. It is composed of the open source Aqua, Terra, Ignis, and Aer libraries that implement a large variety of scientific algorithms.
- https://github.com/thomascherickal/ethereum-virtual-machine
  Implementation of the Ethereum Virtual Machine done solely in Python, used for Solidity, C#, Python, and other languages. The canonical smart contract implementation often referred to as Blockchain 2.0.

ARTICLES

- https://dimensionless.in/machine-learning-algorithms-every-data-scientist-should-know/
  Machine Learning Algorithms Every Data Scientist Should Know – Dimensionless Technologies
- https://dimensionless.in/will-julia-replace-python-and-r-for-data-science/
  Will Julia Replace Python and R for Data Science – Dimensionless Technologies
- https://rejolut.com/digital-transformation/
  How to Outsell Amazon in the Books and Gadgets Market – Rejolut Technologies
- https://hackernoon.com/how-emerging-tech-will-revolutionize-the-life-of-physically-challenged-people
  Helping the Differently Abled Through Emerging Technology – Hacker Noon
- https://thomascherickal.com/all-time-best-article/
  Life in 2050 – Self Published.
- https://dimensionless.in/comprehensive-guide-to-data-science-with-python/
  A Comprehensive Guide to Data Science with Python – Dimensionless Technologies
- https://dimensionless.in/accurate-bitcoin-price-forecasting-with-python/
  Accurate Bitcoin Price Forecasting with Python – Dimensionless Technologies

MUSIC

- I play the **violin** and have been learning since 1998. I now play in prayer meetings, churches, conventions, and youth meetings. I have performed and sung in numerous **concerts, weddings, masses, feast-day masses and funerals**.
- I sing **acappella choral bass** and have been singing in performing western classical music four-part harmony choirs since 2007. I have sung for the **John Millns Chorale**, the **Handel Manuel Chorus** and the **Madras Philharmonic and Choral Society** (**The MPCS 2020**).

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