

<ul style="list-style-type: none"> <li> <b>GitHub</b> <a href="https://github.com/thomascherickal">github.com/thomascherickal</a></li> <li> <b>Azure DevOps</b> <a href="https://dev.azure.com/thomascherickal">dev.azure.com/thomascherickal</a></li> <li> <b>HackerRank</b> <a href="https://hackerrank.com/thomascherickal">hackerrank.com/thomascherickal</a></li> <li> <b>TopCoder</b> <a href="https://topcoder.com/thomascherickal">topcoder.com/thomascherickal</a></li> <li> <b>Kaggle</b> <a href="https://kaggle.com/thomascherickal">kaggle.com/thomascherickal</a></li> <li> <b>TechGig</b> <a href="https://techgig.com/thomascherickal">techgig.com/thomascherickal</a></li> </ul>	<b>Thomas Cherickal</b> C#-F#-Python-Julia <b>Systems Developer</b> 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 <a href="https://thomascherickal.com">thomascherickal.com</a>	<ul style="list-style-type: none"> <li> <b>Email</b> <a href="mailto:thomascherickal@gmail.com">thomascherickal@gmail.com</a></li> <li> <b>LinkedIn</b> <a href="https://linkedin.com/in/thomascherickal">linkedin.com/in/thomascherickal</a></li> <li> <b>Medium</b> <a href="https://medium.com/@thomascherickal">medium.com/@thomascherickal</a></li> <li> <b>Coderrank</b> <a href="https://coderrank.io/thomascherickal">coderrank.io/thomascherickal</a></li> <li> <b>StackOverflow</b> <a href="https://stackoverflow.com/thomascherickal">stackoverflow.com/thomascherickal</a></li> <li> <b>Phone</b> <a href="tel:+91-9884452724">+91-9884452724</a></li> </ul>
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ABOUT ME
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**C#.NET & Python Developer** who is proficient in programming with a wide breadth of tech knowledge currently exploring various applications of **ML.NET, Accord.NET and the Python ML ecosystem** in **machine learning, deep learning, artificial intelligence, genetic algorithms, evolutionary algorithms, and natural language processing**. I am looking for a position as a **C# Developer or Python Developer**. I also see **F# as the best language** for data science, machine learning, and quantum computing and quantum artificial intelligence and can also work with **Julia or Microsoft Q#**.

EXPERIENCE
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**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
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| <ul style="list-style-type: none"> <li> <b>C#.NET</b></li> <li> <b>F#.NET</b></li> <li> <b>Python</b></li> <li> <b>Julia</b></li> <li> <b>Q#.NET</b></li> <li> <b>ML.NET</b></li> <li> <b>Artificial Intelligence</b></li> <li> <b>Machine Learning</b></li> <li> <b>NLP</b></li> <li> <b>Data Science</b></li> <li> <b>Jupyter Notebooks</b></li> </ul> | <ul style="list-style-type: none"> <li> <b>MS SQL Server</b></li> <li> <b>Scikit-learn Stack</b></li> <li> <b>Genetic Algorithms</b></li> <li> <b>Optimization</b></li> <li> <b>Neural Networks</b></li> <li> <b>Fuzzy Logic</b></li> <li> <b>Google Data Studio</b></li> <li> <b>Open Source</b></li> <li> <b>Agile Methodologies</b></li> <li> <b>Clean Code</b></li> <li> <b>Clean Architecture</b></li> </ul> | <ul style="list-style-type: none"> <li> <b>Code Complete</b></li> <li> <b>Unit Testing</b></li> <li> <b>Design Patterns</b></li> <li> <b>DevOps</b></li> <li> <b>Git &amp; GitHub &amp; DVC</b></li> <li> <b>Self-Documenting Code</b></li> <li> <b>Test-Driven Developer</b></li> <li> <b>Quantum AI</b></li> <li> <b>Quantum Computation</b></li> <li> <b>Accord.Genetic</b></li> <li> <b>Dynamical Systems</b></li> </ul> | <ul style="list-style-type: none"> <li> <b>Chaos &amp; Complexity Theory</b></li> <li> <b>Excellent Communication</b></li> <li> <b>Public Speaking Skills</b></li> <li> <b>Team Player</b></li> <li> <b>Highly Creative</b></li> <li> <b>Empathetic</b></li> <li> <b>Excellent Writing Skills</b></li> <li> <b>No Problem with Accents</b></li> <li> <b>Remote Collaborator</b></li> <li> <b>Excellent Listener</b></li> <li> <b>Discreet</b></li> </ul> |
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	PROJECTS	
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✚ <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.

	OPEN SOURCE	
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✚ <https://github.com/thomascherickal/scikit-learn>

The world's most famous and easiest-to-learn machine learning toolbox in Python. Used in 5 libraries called the scikit-stack, NumPy, SciPy, Pandas, Scikit-Learn, and Matplotlib. Many more python libraries are available like Seaborn, SymPy, and of course, the Anaconda distribution.

✚ <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 scientists 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/machinelearning>

This is the open source project for the ML.NET machine learning package from Microsoft which allows you to build complex machine learning skills through wizards and walkthrough guides that simplify the process.

✚ <https://github.com/thomascherickal/visualfsharp>

Functional programming is the future. F# is a multi-paradigm functional language based on the .NET platform. It is immensely versatile, and I want to use it for ML.NET as well as Q#.NET (quantum computing) and Accord.NET

✚ <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 circuit. It is composed of the open source Aqua, Terra, Ignis, and Auer 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.

	ARTICLES	
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✚ <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 – HackerNoon

✚ <https://thomascherickal.com/all-time-best-article/>

Life in 2050 – Self Published.

	MUSIC	
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✚ 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)**.

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