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Thomas Cherickal
 Team Lead (Python, Julia, Dart, Flutter, Docker, Qiskit, Go, VB)
Research Systems Consultant
 Test-Driven Development
 Clean Code Complete 2
 Cross-Platform Mobile Apps in Linux, iOS, Android & Chromium
 Genetic Algorithms & DeepMind
 Neural Networks & OpenAI Gym
 Hedera Hashgraph & Blockchain
 IBM Qiskit & Xanadu PennyLane
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	ABOUT ME	
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Applied Research Systems Consultant & Cross-Platform Developer who is proficient in programming in **Python, Julia, Dart, Flutter, Docker, Linux, VB.NET, Go, & Python Frameworks** currently exploring various applications of **cross-platform mobile development, blockchain, quantum computing, machine learning, deep learning, artificial intelligence, genetic algorithms, evolutionary algorithms, and natural language processing. Important: Please check out the link in the footer in detail!**

	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"> 🚀 Python & Python Libs 🚀 Julia & CUDA & HPC 🚀 Quantum Computation 🚀 Artificial Intelligence 🚀 Machine Learning 🚀 Jupyter Notebooks 🚀 Blockchain Technology 🚀 Hedera Hashgraph 🚀 Scikit-Learn Stack 🚀 Genetic Algorithms | <ul style="list-style-type: none"> 🚀 Optimization 🚀 Deep Neural Networks 🚀 Dart & Flutter 🚀 Open Source 🚀 Agile Methodologies 🚀 Clean Code 🚀 Clean Architecture 🚀 Code Complete 🚀 Pragmatic Programmer 🚀 Design Patterns | <ul style="list-style-type: none"> 🚀 DevOps, AIOps, GitOps 🚀 GitHub, git, hg, svn & DVC 🚀 Linux Development 🚀 GitHub & GitLab 🚀 Self-Documenting Code 🚀 Mobile Development 🚀 Quantum ANNs and GAs 🚀 Quantum Computation 🚀 Test-Driven Development 🚀 Chaos & Complexity Theory | <ul style="list-style-type: none"> 🚀 Excellent Communication 🚀 Public Speaking Skills 🚀 Team Player 🚀 Highly Creative 🚀 Empathetic 🚀 Excellent Writing Skills 🚀 No Problem with Accents 🚀 Remote Collaborator 🚀 Excellent Listener 🚀 Discreet |
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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.

✚ <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	
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✚ <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 & Go.

	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 – 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	
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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)**.

✚ I have been a **Jesus Youth** since 2012 and am involved in several prayer meetings and cell team groups in Chennai, and we go on outreach programmes for the poor every week. I have also completed over 3 levels of Jesus Youth Formation modules.

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