

# Vijay Mathew

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<http://schemer.in>  
[Github](#)

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## Summary

Over 20 years professional experience in software design and engineering. Proficient in **Clojure**, **Java**, **Scheme**, **C**, and **Python**.

Ability to respond fast in a dynamic environment and deliver good quality code.

Worked successfully as part of local and remote teams.

Excelled as an individual contributor solving difficult problems.

## Experience

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### **Fractl / Founding Engineer & Software Architect**

APRIL 2018 - PRESENT, BANGALORE

Designing the next generation declarative language and runtime for domain modeling.

### **SAP Concur / Principal Engineer**

DECEMBER 2014 - APRIL 2018, BANGALORE

Took the technical leadership in the design and implementation of a scalable user identity management and authorization service.

Single-handedly developed and brought the service to production, which at that time was serving 40+ million daily requests.

Technology and tools: Clojure, Java, Python, MySQL, Elasticsearch, Couchbase.

### **HappiestMinds / Senior Technical Lead**

JUNE 2012 - DECEMBER 2014, BANGALORE

Designed and developed the content indexing, search and delivery services for Pearson Education's next generation EPUB reader.

Implemented the Python SDK for its authentication services.

Technology and tools: Java, Spring REST, Python, Elasticsearch.

### **Actiance / Senior Systems Analyst**

APRIL 2007 -JUNE 2012, BANGALORE

Designed and implemented:

- The Information Leak Prevention sub-system for the Actiance enterprise network monitoring tool. Network traffic is captured and analyzed based on content classification rules. Then policies are dynamically applied in-stream. This system was developed in Java.
- An RPC framework based on Google Protobuf. Designed an efficient protocol for sending captured IM/UC content to the network monitoring server. Language used: C++.
- A data visualization tool in Flex/ActionScript for analyzing enterprise wide employee interaction patterns.
- Network auditing tools for IBM Sametime and Microsoft SharePoint developed in Managed C++ and C#. Contributed to the Microsoft OCS connector.

### **SpikeSource / Senior Software Engineer**

AUGUST 2006 - APRIL 2007, BANGALORE

Contributed to Stargate - Spike's next generation build and integration platform. Languages used: Java, C++, Python.

### **Mindteck / Senior Software Engineer**

MARCH 2006 - AUGUST 2006, BANGALORE

Developed embedded software in C & C++ for controlling chromatographic devices.

### **Fischer Systems / Software Engineer**

FEBRUARY 2004 - FEBRUARY 2006, TRIVANDRUM

Designed and implemented:

- A BlackBerry Java application to synchronize PIM databases with enterprise data stores.

- A generic data synchronization platform that can be extended using PHP and JavaScript. This project was developed in C++, PHP, JavaScript.
- A lightweight web-server that can generate dynamic content from PHP and C++ servlets.
- An LDAP ODBC driver with support for DML statements, developed in C++.
- Data export/import connectors for MS Outlook, Lotus Notes and Novell GroupWise. Language used: C++.
- A WYSIWYG HTML editor developed in Java Swing for the Fischer DataForum product.

### **DArts / Software Engineer**

MAY 2003 - JANUARY 2004, TIRUVALLA

- Designed and implemented an Internet Kiosk Management System in C++.
- Developed bespoke web-applications on the LAMP stack.

### **Indusware Solutions / Software Engineer**

FEBRUARY 2001 - MAY 2003, TIRUVALLA

Designed and developed the following products -

- Planet Zip. A file compression utility. Technology: Delphi.
- Planet Split. A file split utility developed in C++.
- IChat, a text/voice/video chat application implemented in Java.

### **Freelance Consultant / Software Engineer**

JANUARY 2000 - FEBRUARY 2001, KOZHENCHERRY

Developed and marketed a complete solution for private banks.

The whole product, including its GUI and datastore was developed in Visual C++.

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## Education

### **Mahatma Gandhi University / Bachelor's Degree**

APRIL 1995 - APRIL 1998, KOTTAYAM

Majored in Financial Accounting with Cost Accounting and Statistics.

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## Open Source Projects

### **The Slogan programming language —**

<http://schemer.in/slogan>

A high-level dynamic programming language that compiles to efficient machine code, ready for parallel execution.

### **Reo — <https://github.com/anvetsu/reo>**

A programming language and environment for data analysis.

### **CljAct — <https://github.com/vijaymathew/cljact>**

A Clojure library for concurrent computing based on actors and asynchronous message passing.

### **Beget — <https://github.com/vijaymathew/beget>**

A tool and language agnostic framework written in Go for building scalable crawl infrastructures.