

Vijay Mathew

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EXPERIENCE

Concur, Bangalore — *Principal Engineer*

DEC 2014 - PRESENT

Leading the design and implementation of a scalable user identity management and authorization service. Single-handedly developed and brought to production the application that serves 40+ million requests daily.

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

HappiestMinds, Bangalore — *Senior Technical Lead*

JUN 2012 - DEC 2014

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

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

Actiance, Bangalore — *Senior Systems Analyst*

APR 2007 - JUN 2012

Designed and implemented:

- The Information Leak Prevention sub-system developed in Java for the Actiance enterprise network monitoring tool. IM and UC traffic is captured and analyzed based on content classification rules. Policies are applied in-stream.
- 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 socializing patterns.
- Network auditing tools for IBM Sametime and Microsoft SharePoint developed in **Managed C++** and **C#**. Contributed to the Microsoft OCS connector.

Spikesource, Bangalore — *Senior Software Engineer*

AUG 2006 - APR 2007

Contributed to Stargate - Spike's next generation build and integration

SKILLS

Over 15 years professional experience in software design and engineering. Proficient in **Java, Clojure, 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.

platform. Languages used: **Java**, **C++**, **Python**.

Mindteck, Bangalore — *Senior Software Engineer*

MAR 2006 - AUG 2006

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

Fischer Systems, Thiruvananthapuram — *Software Engineer*

FEB 2004 - FEB 2006

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, Thiruvalla — *Software Engineer*

MAY 2003 - JAN 2004

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

Indusware Solutions, Kochi — *Software Engineer*

FEB 2001 - MAY 2003

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, Kozhencherry — *Software Engineer*

JAN 2000 - FEB 2001

Developed and marketed a complete solution for private banks. The whole product, including its GUI and datastore was developed in **Visual C++**.

EDUCATION

Mahatma Gandhi University, Kottayam — *Bachelor's degree
in Commerce*

APR 1995 - APR 1998

Majored in Financial Accounting with Cost Accounting and Statistics.

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.

Lisp Chronicles — <http://lispchronicles.com>

A blog that publishes articles on modern Lisp programming, with a slant towards Clojure and Scheme.

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

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