

# Anantha Kumaran

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Bangalore, India.

## WORK EXPERIENCE

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### ActiveSphere Technologies Private Ltd

Feb 2012 — Present

Working as a consultant. Some of the client projects include

**Midtrans** - a leading payment gateway in Indonesia.

- was part of the team which develops the **snap** product, an embeddable payment form
- helped them **migrate** their notification system to Elixir stack to improve throughput and resource consumption
- built the initial version of centralized auth server based on oauth protocol
- built a streaming report generation system that could export hundreds of thousands of rows of data in xlsx and csv format while maintaining constant memory overhead
- helped with establishing a pattern for kafka consumers. There are now 10s of consumers processing millions of events per day. Built a system to selectively reprocess historical events.
- helped with decoupling services which were directly accessing each other's databases

Some of the libraries — namely **redix\_sentinel**, **barlix**, **xml\_stream** and **zstream** — are open-sourced.

**EnerNOC** - I was a core member of the team that developed **Energy Manager**, a web app used by professionals to visualize and understand energy usage. I have touched many parts of the system. My main contribution includes writing and improving various charts like load profile, consumption, heatmap etc using d3. I have also written an automated test system to generate charts for various combinations of state and compare their screenshots with previous versions to catch regression and a library named **μ** to compress url parameters.

**Placeley** - I was part of the two member team that developed the web app and the backend for placeley, a geo location social network for places.

### Bitstat Technologies Private Ltd

Jan 2011 — Jan 2012

Developed and deployed a web based business process management system. Used several technologies including nginx, unicorn, rails, solr, mysql, amazon ec2, amazon ses, qpsmtpd, redis, oauth, capistrano. Authored a WYSIWYG Form Editor similar to wufoo.com.

### Artha42 Innovations Private Ltd

Jul 2010 — Dec 2010

Worked with a team that developed and deployed a personal health record management system. Used several technologies including mongodb, sinatra, nginx, thin, beanstalk.

## PROFICIENCY

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**Experienced** - Ruby, JavaScript, TypeScript, Elixir, Emacs Lisp.

**Knowledgeable** - Clojure, C, Erlang, Shell script, Go, Java.

## SELECTED OPEN SOURCE PROJECTS

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**NEato** - Nintendo emulator written in go.

**Fake Dynamo** - Amazon Dynamodb emulator.

**Tide** - TypeScript Interactive Development Environment for Emacs.

**Webify** - webfont generator which can convert ttf to woff, eot and svg.

**μ** - μ is a JavaScript library for encoding/decoding state in URL.

**Memcachex** - Memcached client for Elixir.

**Randex** - regex based random string generator.

**FDB** - FoundationDB client for Elixir.

## EDUCATION

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B.E Computer Science (2006 — 2010).

Karunya University, Coimbatore. CGPA 8.1/10.

## LINKS

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code - <https://github.com/ananthakumaran>

reading list - <https://ananthakumaran.in/books>

visualizations - <https://ananthakumaran.in/visualization>