

# Sridhar Ratnakumar

Last update on November 6, 2019

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Quebec • Canada

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## Summary

*Creative geek with roots in open source, a free-spirited mindset and a passion for delivering value by developing safe and maintainable software.*

At the age of seventeen (2001) Srid developed a passion for all things computing despite being destined to study medicine. He began programming using the C language before discovering Python, while his interest morphed into appreciating open source & Linux. Throughout the years he continued hobbyist programming along with gaining professional experience.

Ever since he picked up the Go programming lan-

guage, Srid developed an enthusiasm for creating better concurrent software with the safety of the type system. This eventually led to using Erlang, Elixir and finally arriving at Elm which allowed him to rediscover the delights of writing frontend software. Elm, in addition to PureScript, turned out to be a gateway drug to learning Haskell, and using it to write real-world full-stack apps with the help of functional reactive programming.

Srid has been working remotely since about 2014, and currently enjoys living in Quebec while practicing French and immersing in the new culture.

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## Professional Experience

Self-employed

### Haskell consultant

Building maintainable and correct software using functional programming—specifically with Haskell—for various clients.

QUEBEC, QC & REMOTE

Nov '19 – current

Obsidian Systems

### Haskell engineer

Developed full-stack apps in Haskell for web and mobile, using functional reactive programming (Reflex FRP) along with Nix & Postgres.

REMOTE

Feb '18 – Sep '19

Heroku

### Senior Software Engineer

Improved the Heroku logging system, including logplex, as part of the Heroku Telemetry team, using Erlang & Go; Improved the Heroku runtime as part of the Heroku Cedar team, using Elixir & Ruby.

REMOTE

Jul '15 – Jul '16

ActiveState

### Senior Software Engineer

Worked on both Python and Cloud Foundry at ActiveState. Python package manager, comprising an automated backend to fetch and build Python packages from PyPI, to an apt-get like cross-platform Python client to install the build binary packages. Also worked on Logyard, a log aggregation component for Cloud Foundry, written in Go.

VANCOUVER, BC & REMOTE

Apr '09 – Nov '14

Microsoft Canada

### Software Engineer in Test

Worked on automated tests for several authorization and DRM components in Windows Vista.

RICHMOND, BC

Mar '08 – Mar '09

Amazon India

### Software Engineer

Worked on the A9 ad-traffic validation team.

BANGALORE

Jan '06 – Mar '07

*Please refer to my [GitHub profile](#) for a list of software written, or contributed to, outside of professional work environments.*

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## Education

College of Engineering Guindy, Anna University

Bachelor degree in Computer Science & Engineering

CHENNAI, INDIA

2001 – 2005

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## Skills

**Technical expertise:** Software design and implementation, with(in) a team and as a hobbyist. Enjoys writing Python/Clojure/Go/Go/Elixir/Elm/PureScript, and particularly Haskell. Experience developing full-stack apps, with special expertise in functional reactive programming à la [reflex](#). Other experiences include but not limited to: Linux, Nix, NixOS, PostgreSQL, algorithms, open source, category theory.

**Natural languages:** Tamil (*mother tongue*), English (*full professional proficiency*), French (*limited working proficiency*)