

Senthil Velu Sundaram

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I'm a full stack engineer and technical lead with over eleven years of experience. I've been building applications with technologies suitable like Node.Js, GoLang, Java, Ruby on Rails, JavaScript and Scala.

I love resilient architectures. I love extensible design. I love microservices. I love continuous delivery. I love small teams that work in a lean way to get things done. I love building stuff that are highly scalable. I love to travel. I love mentoring and building teams.

I wanna be part of the product growth journeys. I wanna be part of a team of great people. I wanna be part of learning organizations.

Technical Skills

Likes: node.js rails ruby-on-rails javascript jquery angularjs git scala scalability tdd vim twitter-bootstrap go amazon-web-services digital-ocean ansible devops continuous-delivery

Experience

VP Engineering – Get Simpl Technologies Ltd Jan 2017 → Current
ruby-on-rails, node.js, go, pyspark, python, amazon-web-services, docker, devops

Leading the engineering team. Converting business vision into the roadmap and then the product. Delivering high-quality engineering.

Architecting solutions, code reviews, pair programming, mentoring.

Excited to see the product growing 15x in last year and more in future

Technical Lead – ThoughtWorks Apr 2009 → Jan 2017
ruby-on-rails, rspec, javascript, mongodb, postgresql, angularjs, git, scala, scalability, tdd, vim, backbone.js, jquery, android, css, twitter-bootstrap

Been part and been a lead in teams that deliver projects. Responsible for overall delivery and keeping the codebase clean. Interacting with business stakeholders, suggesting solutions. Executing projects right from inception stage through solutioning, architecting, planning, implementation and deployment. Typical day includes coding, pair programming, design discussions. Mentoring the junior members as well.

Software Engineer – Satyam Computers Sep 2006 → Apr 2009
java, struts, javascript, db2, websphere

Was a part of a team that built application for one of the automobile clients. Handled a complex module and scaled the application. Ported the application with few modifications to a different unit of the same client.

Education

Bachelor of engineering – Anna University 2002 → 2006
electronics

Was passionate in microprocessors, embedded systems and ALP. Won many circuit debugging challenges. Did my final year project in DRDO (Defence Research and Development Organization), India.

Projects & Interests

Stack Overflow – <https://stackoverflow.com/users/227705/siliconsenthil> Dec 2009 → Current
Written 16 answers. Active in ruby-on-rails.

commit_param_routing – https://github.com/siliconsenthil/commit_param_routing Oct 2013 → Current
ruby

Gem that helps rails project to route to different controller actions based on commit param of the form

capypage – <https://github.com/TWChennai/capypage> Sep 2013 → Current
ruby

Page Object Model for Capybara

tabs_on_rails – https://github.com/siliconsenthil/tabs_on_rails Aug 2013 → Current
ruby

Tabs on Rails is a simple Rails plugin for creating and managing tabs and navigation menus.

vim-rspec – <https://github.com/siliconsenthil/vim-rspec>
viml

Aug 2013 → Current

Run Rspec specs from Vim

openlibrary – <https://github.com/TWChennai/openlibrary>
javascript

Dec 2012 → Current

the openlibrary project

crize – <https://github.com/siliconsenthil/crize>
javascript

Nov 2012 → Current

Crop and resize an uploaded image using canvas

reek_viewer – https://github.com/siliconsenthil/reek_viewer
ruby

Jun 2012 → Current

rubyのメトリクス測定ツールreekの出力を、HTMLに整形して出力するツール。

vim – <https://github.com/siliconsenthil/vim>
viml

Sep 2011 → Current

Public Artifacts

Memory leaks with validation_scopes - siliconsenthil.in – <http://siliconsenthil.herokuapp.com/blog/2013/01/19/validation-scopes-leaks-memory/>

Memory leaks with validation_scopes

How we debugged memory leak in a rails app. - siliconsenthil.in – <http://siliconsenthil.herokuapp.com/blog/2013/01/19/how-we-debugged-rails-memory-leak/>

How we debugged memory leak in a rails app.

Onclick link disabling with jQuery - siliconsenthil.in – <http://siliconsenthil.herokuapp.com/blog/2011/04/15/onclick-link-disabling-with-jquery/>

A very simple JQuery function to disable links on click

If else or Switch case to Polymorphism - siliconsenthil.in – <http://siliconsenthil.herokuapp.com/blog/2011/04/15/if-else-or-switch-case-to-polymorphism/>

How to convert if-else blocks to OO

Data pipeline: Batch vs Stream processing – Simpl—Under The Hood – Medium – <https://medium.com/simpl-under-the-hood/data-pipeline-batch-vs-stream-processing-d038bdb29e18>

Mar 2018

We have implemented microservices and event-sourcing at Simpl. All our internal and external facing services emit structured events. The...

Apps & Software

One Sony – <https://www.thoughtworks.com/live/2014/europe/one-sony-and-the-global-customer-experience>
scala, apache-camel, ruby

The program aimed at making sony website content delivery across geographies and languages to work seamlessly in cloud. I was leading the integration stream which was acting as a spine across lots of systems. We had to build 'pipelines' using apache-camel that could scale and perform. It was deployed in cloud and had continuous delivery. The project was completed well ahead of time and became an example for the whole program.

I played the tech-lead role starting from the idea stage till the deployment. I worked on the design and development.

Justickets – <https://www.justickets.in/chennai>
go, node.js, amazon-web-services, ruby, redis

It's an online realtime movie ticket booking web-app. The backend was built in go-lang with ambitious performance expectations. We built the application to respond with less than 100ms and ability to scale on demand. Both in terms of scalability and performance, it was an excellent learning experience and an achievement that I'm always proud of.

I played the tech lead role with a very small team. I discussed, designed and implemented. Successfully solved scalability and performance issues.

WeGift, an app. to collaborate for gift – <http://letsgift.herokuapp.com/ruby-on-rails, faye, heroku>

It helps to choose a gift for an event. It extracts metadata from shopping website(e.g. flipkart) urls and adds the option. There can be discussion and voting. It's a single-page realtime app.

From idea to design and development. Of course, with a small team.

Readings

Learning JavaScript Design Patterns – Addy Osmani – <http://www.amazon.com/Learning-JavaScript-Design-Patterns-Osmani/dp/1449331815%3FSubscriptionId%3DAKIAIIBINOD46VC3JCLQ%26tag%3Dstackoverf108-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3D1449331815>

JavaScript Web Applications – Alex MacCaw – <http://www.amazon.com/JavaScript-Web-Applications-Alex-MacCaw/dp/144930351X%3FSubscriptionId%3DAKIAIIBINOD46VC3JCLQ%26tag%3Dstackoverf108-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3D144930351X>

Ruby on Rails Tutorial: Learn Web Development with Rails (2nd Edition) (Addison-Wesley Professional Ruby Series) – Michael Hartl – <http://www.amazon.com/Ruby-Rails-Tutorial-Addison-Wesley-Professional/dp/0321832051%3FSubscriptionId%3DAKIAIIBINOD46VC3JCLQ%26tag%3Dstackoverf108-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3D0321832051>

Rails Recipes: Rails 3 Edition – Chad Fowler – <http://www.amazon.com/Rails-Recipes-3-Edition/dp/1934356778%3FSubscriptionId%3DAKIAIIBINOD46VC3JCLQ%26tag%3Dstackoverf108-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3D1934356778>

Agile Web Development with Rails 3.2 (Pragmatic Programmers) – Sam Ruby, Dave Thomas, David Heinemeier Hansson – <http://www.amazon.com/Agile-Development-Rails-Pragmatic-Programmers/dp/1934356549%3FSubscriptionId%3DAKIAIIBINOD46VC3JCLQ%26tag%3Dstackoverf108-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3D1934356549>

Tools

Favorite Editor: VS Code, IntelliJ IDE