

# Srinivas Reddy Thatiparthi

<https://srinivasreddy.dev>

<https://github.com/srinivasreddy>

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## EDUCATION

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- **Kakatiya Institute of Technology and Science** Warangal, Telangana, India  
*Bachelor of Electronics and Communications Engineering; CGPA: 7/10* Sep. 2003 – May. 2007

## SUMMARY

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- A passionate developer with total of 13 years software development experience and 10 years of python,Django development experience building various tools, sites, and frameworks.
- Consulted for Casperlabs - A blockchain company for building integration test framework. Contributions can be found here - <https://bit.ly/2pDEVBZ>
- I worked on REST APIs in DRF, and develop web applications in python and Django for a large F&I solutions provider for cars in USA.
- I have an extensive experience in writing unit, integration and functional test cases using various frameworks such as unittest, nosetests, mock, fixtures.
- Have expertise in using NoSQL databases like Redis, MongoDB.
- Maintained Mongomock library as core developer and interacted with various open source contributors while accepting patches.
- Very active open source developer, my patches has been accepted in Django, IPython, Numpy, Pytest, Rust (Programming language), Cargo -(rust package manager), rustfmt - (rust code formatter). Please go through github account at <https://github.com/srinivasreddy> .
- Consulted for iDataLabs -(<https://idatalabs.com/>), and built data extraction engine which extracts data from various sources such search engines, wikipedia, etc.
- Mentored teams on Python/Django/Django Rest Framework and writing idiomatic python code.
- Extensive experience in reviewing other teams code and suggesting/ improving changes for readability, maintainabilty.

## PERSONAL PROJECTS

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- **allhub**: Allhub is a Github REST Client written in Python - <https://github.com/srinivasreddy/allhub>
- **rust-bloomfilter**: A simple bloom filter implementation in Rust - <https://github.com/srinivasreddy/rust-bloomfilter>
- **rust-timeago**: Time ago library for display strings such as "just now", "10 secs ago", "1 day ago", etc. - <https://github.com/srinivasreddy/rust-timeago>
- **companies-list**: Data scraper written in Typescript (abandoned) - <https://github.com/srinivasreddy/companies-list>
- **Euler**: Project Euler solutions - <https://github.com/srinivasreddy/euler>
- **sudoku**: A brute force sudoku solver in Python - 2010ish - <https://github.com/srinivasreddy/sudoku>

## EXPERIENCE

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- **Modus Create** Remote  
*Software Engineer - Contract* *Feb 2021 - Present*
  - **Hilco Streambank:** is developing a product to assist their sales team to find unallocated CIDR blocks, Autonomous System Numbers (ASN) in IPv4 address space to sell and lease on their auction marketplace - <https://ipv4.global>.
  - Store everyday and historical IPv4 CIDR blocks data in database from all Regional Internet Registries.
  - Query and parse whois servers for a IPv4 CIDR block to company name mapping.
  - Generate report for history of a CIDR block and unrouted space for a day.
  - Design and development of Database schema and REST API systems with JWT.
  - Worked with DevOps team in deploying the application and debugged containers in a Kubernetes cluster.
- **Freelancer** Remote  
*Software Engineer* *Sep 2019 - Feb 2021*
  - **Misc. Clients:**
  - Built a Scraper to scrape various job boards using Puppeteer, Typescript, TypeORM, Postgres.
  - Backend was developed using REST framework in Django
  - Misc. Tools and utils for clients in Upwork and from other channels
  - Open source work in Rust
- **Casperlabs** Remote  
*Software Engineer - Contract* *Feb 2019 - Aug 2019*
  - **Casperlabs.io:** Casperlabs is a proof-of-stake smart contracts platform optimized for developer experience and enterprise integration.
  - Helped in creating the automation framework for integration tests with Docker, Python, Drone - CI/CD tool. All of my contributions can be found here - <https://bit.ly/2pDEVBZ>
- **Harman Connected Services** Hinjawadi, Pune, India  
*Lead Engineer* *Mar 2015 - Nov 2018*
  - **Dealertrack F&I Solutions:** Dealertrack F&I solutions is a suite of applications such as Credit App, Digital Contracts, Formtastic, DocCenter
  - **Credit Application:** Credit application gives an opportunity to a customer to apply for credit to various lenders for purchase of a vehicle.
  - **Digital Contracts:** Digital contracts automates the paper work required in the process of purchasing a vehicle.
  - **Formtastic:** Formtastic is a configuration and rules management tool. This is used to configure various parameters for dealers and lenders alike, such as vehicle types, forms, states, etc.
  - **DocCenter:** DocCenter is a service built for storing various documents in the life cycle of a Deal. Designed REST APIs to fetch and store documents.
  - **ReactJS:** I have written React.js components; Enhanced and fixed bugs in React.js.
- **Tech Mahindra** Hyderabad, Telangana, India  
*Senior Technical Associate* *May 2013 - Feb 2015*
  - **mHealth:** mHealth is a responsive website for chronic disease management for elderly people
  - Writing various views, readable and maintainable python code.
  - Consuming various REST apis and integrating with various modules.
  - Helping Dev team in trouble shooting issues.
  - Helping UI team in mentoring Django templates, and Javascript programming.
- **Gridlex** Hyderabad, Telangana, India  
*Software Engineer* *March 2012 - May 2013*
  - **Autoleg:** Autoleg is an used cars inventory which tracks price changes across dealers and over a period of time for a car.
  - Came up with an efficient rule based mechanism to extract information from 40k dealer websites.
  - Setting up and managing infrastructure servers on AWS.

- Ran HBase cluster with the help of Apache Whir provisioning software as part of prototyping data storage.

- **Amphora Inc** Hyderabad, Telangana, India  
*Software Engineer* *Aug 2010 - Dec 2011*
  - **Symphony:** Symphony is an end-to-end solution that automates the crude oil trading process from execution through to settlement for the liquid hydrocarbon market. Symphony handles the complexities of physical oil movement throughout the deal life cycle.
  - Fixing bugs arising out of WPF layer used in UI
  - Migrated legacy plist files of web objects framework to hibernate hbm files. Validated hibernate entity relationships with various Junit test cases.
  - Cross checking the behaviour of application with legacy application written Objective-C with the help of gdb
  - Used python scripting for quick reports generation for Transactions in a day, no of Trades and etc.
- **Akebono Soft Technologies** Hyderabad, Telangana, India  
*Software Engineer* *June 2008 - July 2010*
  - **Akira:** Akira is an internal employee portal
  - **Integrated Project Management Tool:** Integrated Project Management Tool is the web based application for managing and tracking software development projects, with features includes Dashboard, Activities, Resources, Collaboration, sharing, notifications, Gantt charts, Permissions and reports
  - ASP.net, C# programming for the above internal tools and sites.

## PROGRAMMING SKILLS

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- **Languages:** Python(9 years), Rust(1 year), Javascript, SQL, Java(2 years), C#(2 years)
- **Tools & Technologies:** AWS, Redis, Github enterprise, Jenkins, Drone, pre-commit, Oracle, Django, React, Django Rest Framework, SQLAlchemy, IPython, Flake8, pip, mongoengine, mongomock, MongoDB, nose-test, pytest, virtualenv, importanize, Rust, Cargo, rustfmt.

## AWARDS & CERTIFICATIONS

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- **Hall of Fame Award - Harman 2016 for outstanding contributions across teams -**  
<https://goo.gl/photos/qTtCtouN7DiNMSvX7>
- **Neural Networks and Deep Learning -** <https://goo.gl/6xvrgo>