SAMYAK S SARNAYAK

Software Engineer

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- in samyaks
- Bengaluru, India



EXPERIENCE

Software Engineer

Chaos Genius

- Sep. 2021 Present
- Bengaluru, India
- Part of the early 10-person tech team.
- Managed several releases of both open source and proprietary products.
- Revamped alerting system in CG open source. Working on automated recommendations for SQL gueries.

Summer Intern

Akamai Technologies 🏶

- **May 2021 July 2021**
- Bengaluru, India
- Architected and set up a platform to query over existing data lakes (with multiple Petabytes of data).
- Benchmarked Trino to find optimal configuration and achieved 5x+ speedup in query times.

Co-instructor - Machine Learning with Julia PESU IO PESU IO

- Feb. 2021 Mar. 2021
- Bengaluru, India
- Taught the course to 15+ first year students.

Intern

RuleZero (

- **July 2020 May 2021**
- Bengaluru, India
- Built a smart search tool to extract data from a legal database consisting of investors, cap table and related information.

Intern

Deeplogick **(#)**

- **Dec.** 2019 May 2020
- Trained and deployed object detection models based on SSD MobileNet V2.
- Optimised models to run on GPUs and Jetson Nano using TensorRT.
- Built a model trainer API through a scheduler.

ACHIEVEMENTS



PROJECTS

browser-history (7)

- PES Open Source
- Open Source Python Package for retrieving any browser's history.
- Over 100 pull requests, 22,000 downloads on PyPI.
- Presented the project at PyCon India 2020 and 2021 DevSprints.

OtterSql 😱

- An embeddable, in-memory SQL Interpreter designed to be used in tests for SeaORM.
- Written in Rust. A part of SeaQL's Summer of Code 2022.

gopy 😱

 A compiler frontend for a subset of Go written in Python.

spressolisp 🞧

• A lisp interpreter written in Rust.

michie 😱

- A Rust attribute macro that adds memoization to a function.
- Co-authored in a mob programming fashion.

likelang 😱

- An experimental dynamically typed, function-first language.
- Made at the week-long langjam0002.

za-warudo lang 🜎

- A highly domain-specific language to procedurally generate 2D worlds.
- One of the winners at langjam0003.

toipe 😱

- A typing test terminal app written in Rust.
- Over 400 stars on GitHub.

1st place at ISFCR CTF 1 & 2 Capture-The-Flag hackathons conducted at PESU Grand Finale Winners at EY GDS Hackpions 2.0, 3.0 and 4.0 National Level Hackathon 3rd Place at Gov-TechThon 2020 by IEEE National level hackathon CNR Rao Merit Scholarship 1st, 2nd, 3rd & 4th semester CSE MRD Merit Scholarship 3rd, 4th, 5th & 7th semester CSE

EDUCATION

B.Tech. in Computer Science and Engineering **PES University**

2018 - 2022

Bengaluru, India

CGPA: 9.62/10.0.

Pre-University (Class 12)

Sri Kumaran Children's Home PU College

2016 - 2018

Bengaluru, India

Board: Department of Pre-University Education. Percentage in 2nd year PUC: 95.16%.

Class 10 - ICSE

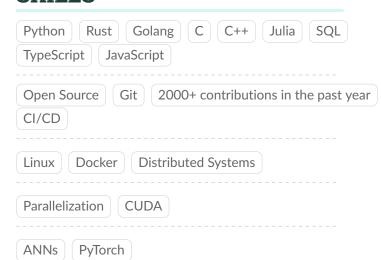
VLS International School

2014 - 2016

Bengaluru, India

Board: Council for the Indian School Certificate Examinations (CISCE). Percentage in Class 10: 92.66%.

SKILLS



heiko 😱

 A fault-tolerant lightweight scheduler to manage servers running on lightweight devices such as phones and Raspberry Pis.

par-a-graph 😱

• Parallelized Pagerank algorithm to achieve upto 4.2x speedup, using goroutines.

skip-list 😱

• C++ implementation of skip list, achieves sub-microsecond logarithmic time operations.

guntainer 😱

A minimal rootless container runtime on Linux.

SVDNN.jl 😱

Used Singular Value Decomposition to decrease training time of neural networks by 1.2x to 2.7x.

NeuralNetwork.jl 😱

Custom Neural Network with GPU support (upto 3x speed up).

Other projects: https://github.com/Samyak2/

PUBLICATIONS

Analysis of Garbage Collection Patterns to Extend Microbenchmarks for Big Data Workloads

July 2022

PES University

 Presented at the WOSP-C workshop held at ICPE (International Conference on Performance Engineering) 2022.

Other research: https://samyaks.xyz/research/

LANGUAGES

English Konkani Hindi Kannada



See the latest online version of this CV

