SAMYAK S SARNAYAK

Software Engineer

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- Bengaluru, India



EXPERIENCE

Software Engineer Chaos Genius

- Sep. 2021 Present
- Bengaluru, India
- Part of the early 10-person tech team.
- Working on the core API, DevOps and Open Source health.
- Managed several releases, revamped alerting system.

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 🌐

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

Intern

RuleZero

- **J**uly 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

1st place at ISFCR CTF 1 & 2

Capture-The-Flag hackathons conducted at PESU

PROJECTS

browser-history (7)

- PES Open Source
- Open Source Python Package for retrieving any browser's
- Over 100 pull requests, 17,000 downloads on PyPI.
- Presented the project at PyCon India 2020 and 2021 DevSprints.

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

gopy 😱

A compiler 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.

toipe 😱

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

skip-list 😱

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

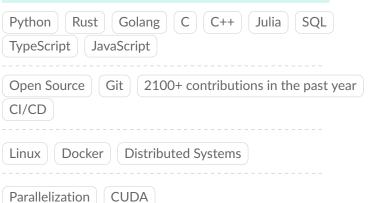
July 2020

guntainer 😱





Grand Finale Winners at EY GDS Hackpions 2.0, A minimal rootless container runtime on Linux. 3.0 and 4.0 National Level Hackathon Abstractive Summarisation using Reformer 1st place in the NuCypher track at ETHOdyssey **i** Jan. - Jun. 2020 PES University Ethereum India Hackathon • Built a decoder-only language model for Summarisation of 24k tokens (approx. 5k words) on single GPU. 2nd Place at Al Challenge, Phase Shift 2019 Applied Gap Sentence Generation for self-supervised Recognising and classifying waste products pre-training. 3rd Place at Gov-TechThon 2020 by IEEE National level hackathon Bengaluru's Greenest Areas 📢 **CNR Rao Merit Scholarship May 2020** PES University 12th rank in 1st & 2nd semester CSE • 5,38,000 satellite images. Found the percent of green using OpenCV. **MRD Merit Scholarship** Custom multi-threaded map-reduce in python - pro-3rd semester CSE cesses 440,000 entries within 2s. **EDUCATION** SVDNN.jl 😱 Used Singular Value Decomposition to decrease train-B.Tech. in Computer Science and Engineering ing time of neural networks by 1.2x to 2.7x **PES University 2018 - 2022** Bengaluru, India NeuralNetwork.jl 😱 CGPA: 9.62/10.0. Custom Neural Network with support for GPU (upto 3x speed up) Pre-University (Class 12) Sri Kumaran Children's Home PU College **2016 - 2018** Bengaluru, India Other projects: https://github.com/Samyak2/ Board: Department of Pre-University Education. Per-**PUBLICATIONS** centage in 2nd year PUC: 95.16%. Analysis of Garbage Collection Patterns to Ex-Class 10 - ICSE tend Microbenchmarks for Big Data Work-**VLS International School** loads 🗏 😱 **2014 - 2016** Bengaluru, India **July 2022** PES University Board: Council for the Indian School Certificate Exami- Presented at the WOSP-C workshop held at ICPE (Innations (CISCE). Percentage in Class 10: 92.66%. ternational Conference on Performance Engineering) 2022. SKILLS Other research: https://samyaks.xyz/research/



ANNs

PyTorch

See the latest online version of this CV

LANGUAGES

English Konkani

Hindi Kannada

