

Sam Radhakrishnan

sam.radhakrishnan@outlook.com | +91 - 9952868058

SKILLS

PROGRAMMING

C, C++, Python, JavaScript, Kotlin, NodeJS, ReactJS, PHP

MACHINE LEARNING TOOLS

scikit-learn, Pandas, Numpy, Keras

OTHER

AWS, MongoDB, PostgreSQL, Git, Kafka, RabbitMQ, CUDA, HTML/CSS, Docker, Kubernetes

EDUCATION

NIT, TRICHY

BTECH IN COMPUTER SCIENCE,
8.75/10

May 2017 | Tamil Nadu, India

OPEN SOURCE

Rust Language
Diaspora
DuckDuckGo Goodies
DuckDuckGo Fathead
Coala

AWARDS

- Finalist, ACM ICPC India Finals 2016
- 26/450, ACM ICPC Amrita Regionals 2016
- Finalist, Build The Shield 2016, Microsoft CTF
- IAS Summer Research Fellow 2015

EXPERIENCE

AMAZON WEB SERVICE | SOFTWARE ENGINEER - 2

Nov 2022 - Present | Berlin, Germany

- Working on a platform team responsible to delivering security to all AWS Consoles
- Built a security scanner that scans AWS consoles in all regions and reports certain security vulnerabilities
- Working with Typescript and AWS

ZALANDO SE | SOFTWARE ENGINEER

Nov 2020 - Oct 2022 | Berlin, Germany

- Worked on a research team building algorithms to optimise logistics and warehouse management
- Worked on implementing a wave based approach to optimise the amount of packages that can be processed in a single hour in a warehouse.
- Improved the existing cart picking algorithm at zalando warehouse, improving the efficiency of warehouse pickers, to reduce costs of 1 million euros per year.
- Working with Kotlin, Python, Kubernetes, Kafka

ALPHONSO LABS | TECHNOLOGIST

May 2018 - Dec 2019 | Bengaluru, India

- Building a system to detect ads from normal television programming.
- Optimised video analysis algorithms using CUDA. Reduced the time to 13 percent of original time.
- Designed and built a scheduling service that allows to schedule user jobs and systems jobs on a limited cluster of machines based on priority.
- Built internal tools to debug and monitor services, using D3, React, and Redux.
- Worked on containerisation of individual services.
- Responsibilities include mentoring of college graduates and interns.
- Working with Node, C++, OpenCV, CUDA, python, Kafka and RABBITMQ

AMAZON INDIA DEVELOPMENT CENTER | SOFTWARE

DEVELOPMENT ENGINEER

Jul 2017- May 2018 | Chennai, India

- Built a web tool for monitoring traffic to Amazon services, and providing statistical information to service owners.
- Worked on a framework for load testing Digital Purchase APIs using AWS SQS.
- Designed and worked on porting an existing perl system for external fraud investigators to JAVA spring, moving to a workflow based system.
- Worked with JAVA Spring and JavaScript.

LINKS

Github:// sam09
Codechef:// skidm09
LinkedIn:// samradhakrishnan

TECH TALKS

- Video Analysis using CUDA and OpenCV - FOSDEM
- Introduction to Linux

PROJECTS

RORSHACH

- A file watcher written in rust that automates mundane tasks.

TRIP RECOMMENDATION SYSTEM

- Worked on collecting information on social networks to identify popular tourist locations at a city, using selenium.
- Wrote a genetic algorithm to identify the most 'rewarding' sequence to visit places in limited time.

CUSTOMER RISK PREDICTION

- Worked on building a machine learning model to identify customers who are likely to take a loan.
- Used under-sampling and an ensemble of classifiers to deal with imbalanced data set.

PRAGYAN CTF 16

- Worked on setting buffer overflow, cryptography and reverse engineering challenges.

BANDCAMP-DL

- A python package that downloads music
- Close to 22k downloads on Pypl

PUBLICATIONS

- Krishnakumari,K., Sivasankar, E. & Radhakrishnan (2019) Hyper parameter tuning in convolutional neural networks for domain adaptation in sentiment classification