# PRAKASH S

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## WORK EXPERIENCE

**Software Engineer**                                                                                                                            **02/2020 – 08/2020**

GKFit                                                                                                                                    Chennai, TamilNadu, India

- Designed and Implemented Rest API for Deep Learning model Inference with network throughput up to 3000 requests per second using Python, TensorFlow and gRPC.
- Developed backend microservice for Internal custom dataset management tool using Flask and MongoDB, deployed on Gcloud.
- Wrote test suites and set up CI/CD pipeline for the application production release and exceeded requirements in every stage.
- Authored development progress reports informing internal personnel and external stakeholders of project milestones.

**Computer Vision Engineer**                                                                                                              **06/2019 – 01/2020**

Bigthinx                                                                                                                               Bangalore, Karnataka, India

- Proposed and implemented process-based parallelism written in Python, which reduced the Image Processing server's latency by 60%.
- Developed GPU-accelerated Docker images used in production that enabled on-demand server scaling, thereby reducing the overall cost of the servers.
- Researched and prototyped ML (Machine Learning) techniques/algorithms for object detection and recognition.

**Software Engineer/ Cofounder**                                                                                                         **04/2018 – 03/2019**

ClothX                                                                                                                                Coimbatore, Tamil Nadu, India

- Co-founded the software company during my last year of university.
- Developed and Deployed the entire backend for the eCommerce website using Nodejs and Python.

## EDUCATION

**Bachelor of Engineering** in Mechatronics                                                                                              **04/2015 – 04/2019**

Anna University  GPA: 3.38/4.0                                                                                                         Coimbatore, Tamil Nadu, India

## PROJECTS

- **Keras** Contributed a dataset splitting utility feature to Keras, a Deep Learning API built on top of Google's Tensorflow and used by over 1 million users in the tech industry and research community.
- **DeFIR** Image Retrieval System to find similar images based on their content using the Nearest Neighbor Search Algorithm and Deep Learning.
- **Pyqoi** A library to support the "Quite OK Image" file format in Python, which implements a faster and more efficient lossless compression algorithm than other Image formats.

## SKILLS

- **Languages**: Python, C, C++, JavaScript, SQL, Html, CSS
- **Frameworks & libraries**: TensorFlow, Flask, Keras, OpenCV, ReactJs, Nodejs
- **Technologies & Tools**: Docker, MySQL, MongoDB, Data structures and algorithms, Computer Vision.
- **Competitive programming**: codechef.com/users/prakash1729brt **(3 stars)**, leetcode.com/prakashsellathurai