

PRAKASH S

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WORK EXPERIENCE

Software Development Engineer

08/2022 – 04/2024

Amazon

Chennai, Tamil Nadu, India

- Owned and Delivered the Incoming Call Blocking feature for Alexa, reducing monthly user churn by 10%.
- Designed and Implemented a Malware Scanner for file uploads, enhancing security within the Alexa LLM architecture.
- Launched an experimental primer page to optimize Alexa device setup flows through user acceptance A/B testing.
- Collaborated with cross-functional teams and spearheaded operational load reduction initiatives.

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%.
- Implemented ML (Machine Learning) detectors using C++ and deployed them on edge devices.
- Researched and prototyped ML techniques/algorithms for object detection and recognition.

EDUCATION

Bachelor of Engineering in Mechatronics
Anna University

04/2015 – 04/2019
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 Neighbour Search Algorithm and Deep Learning.
- **Pygoi** 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, Java, C, C++, JavaScript, XML, SQL, Html, CSS
- **Frameworks & libraries:** Spring, TensorFlow, Flask, Keras, OpenCV, ReactJS, Nodejs
- **Technologies & Tools:** Docker, MySQL, MongoDB, Data structures and algorithms, Computer Vision.
- **Competitive programming:** [codechef.com/users/prakash1729brt](https://www.codechef.com/users/prakash1729brt) (3 stars), leetcode.com/prakashsellathurai