

Kracekumar Ramaraju

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SKILLS

In my **8 plus years of work experience**, I have specialized in building backend systems, performing data analytics, data engineering, web applications, web API, infrastructure automation, and possess a working knowledge in Deep Neural Networks.

EXPERIENCE

Minds.ai

Senior Software Engineer

April 2017 - Present

Minds.ai is a neural network consulting company. My primary role is around data engineering, building tools for data collection, data processing, organizing data for training, and debugging performance issues. I had mentored two engineers for a period of four months.

Tools: Python, Pandas, Tensorflow, PyTorch, Flask, Postgres, Slurm, Docker, Kubernetes, and LMDB

- Architected extensible code for training platform by building a plugin architecture using Pluggy for dynamically choosing a training algorithm and back-end at run-time.
- Designed and built a data pipeline to extract and transform 100 TB of data in a distributed system using SLURM Job Scheduler.
- Improved the performance of data loading in a TensorFlow based neural network by 6x times by moving SQL to LMDB. As the data increased, the architecture scaled linearly.
- Successfully drove company-wide adoption of Python Type hints to all the projects.
- Built a visualization tool to explore anomalies on three-dimensional data using Plotly dash.

7C Studio

Lead Python Developer

May 2015 – Sept 2016

7C studio was a product consulting company for early-stage startups. Primary owner, and decision-maker of all backend technologies in the startup. I had mentored one Junior Engineer over a period of six months.

Tools: Flask, REST API, MySQL, Redis, and Salt Stack.

- Migrated Ruby on Rails code API Stack to Python. Designed and built a python-based backend for a real-time mobile messaging application using web sockets and HTTP APIs. Automated the entire infrastructure set up using Salt Stack.

Recruiterbox

Software Engineer

Jan 2014 - May 2015

Recruiterbox is a single-page app to manage the recruitment process. I was responsible for developing end to end features.

Tools: Django, TastyPie, REST API, MySQL, Redis, RabbitMQ, Celery, Backbone.js, and Puppet.

- Responsible for delivering the features with well-designed interfaces, and integrating external APIs with unit tests, and integration tests.

HasGeek Media LLP

Software Engineer

July 2012 - Dec 2013

HasGeek builds discussion spaces in and around technology. I worked on building tools, web applications to help run events and conferences.

IBM India

Associate Software Engineer

July 2011 - July 2012

OPEN SOURCE - Worked and maintained various FOSS projects over a decade. Below are two recent projects.

Facetouch - [A neural network to predict face touch on a live feed and warn you with the voice. "don't touch the face."](#)

Junction - The [junction](#) is a Django based conference proposal management system. It helps conference organizers to streamline the proposal management, and reviewers to provide feedback to the proposers. I was one of the contributors, maintainers and code reviewers for the project from 2014 to 2017 for [PyCon India](#). I have helped many first time contributors and developers to contribute to the project.

SPEAKER - I have delivered many talks and workshops on various topics over the years. Below is one of the recent talks

Python introduced Type Hints a few years ago, I gave a talk about using Python Type hints at work in PySangamam Conference in Chennai - [Python Type hints Talk Video](#).

EDUCATION

Recurse Center, New York Participant Sept 2016 – Dec 2016

The Recurse Center is a self-directed program for developers to collaborate and get better at programming.

- Developed a BitTorrent Client in Python from scratch using asyncio.
- Partially implemented Amazon's DynamoDB paper in Erlang called "edht".
- Designed and developed an internet bandwidth monitor in Rust called "Imon".
- Built back-end APIs for adding emoji feature to Zulip distributed chat.

Amrita University, India Bachelors in Technology July 2007 - May 2011