

Nithin Kumar KV

CONTACT INFORMATION

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Github: <https://github.com/nithin-kumar>

SKILLS

Strong knowledge in Data structures and Algorithm, Developing scalable applications
Project skills: Developing in Python, Ruby; Experience in Distributed systems; Amazon Web Services; Redis; Docker; Kubernetes, Kafka, AWS Lambda, SpotInst
Languages and Technologies: Skilled in Ruby and Python

EXPERIENCE

Practo Technologies ,Bangalore, India

Senior Software Engineer

October 2017 – Present

- **Containerization:** Containerised 7 Practo Services using Docker and deployed it using Kubernetes
- **Serverless functions:** Migrated a ASG having 7 Instances to AWS lambda functions which resulted in reducing the total cost of Infrastructure
- **Spot Migration:** Moved On-demand instances to Spot instance using Spot service resulted in reducing the total cost of Infrastructure
- **Poller:** Architected and built a scalable platform to support the real time syncing of Doctors schedule on hospital HMS and Practo.com, for effectively managing Doctor timings
- **Re-architecture:** Re-architected entire cloud platform structure of Qikwell, which reduced the overall running cost of the system, as well as it improved the performance, availability and security of the system
- **Sirius :** Machine learned model to determine the intent of the call.

Software Engineer

November 2015 – September 2017

- **Prediction of Patients Consultation Time:** Developed Machine learning system which predicts the consultation time of patient using doctors historical practice data with an accuracy of +/-12 minutes. This led to a significant reduction in waiting time
- **Secure System to Store and retrieve Patients sensitive information**
- **Integration system:** Built Scalable Integration system, which constantly communicate with different Hospital Information Systems.

Qikwell Technologies Pvt Ltd, Bangalore,India

Software Development Engineer

March 2014 –November 2015

- **Qikwell Analytic Dashboard :** Reporting system which is used to aggregate and show Qikwell's appointment data.
- **Qikwell Callcentre :** A tool for booking appointments for Call centre staffs.
- **Cache framework:** Implemented a Redis cache framework for storing data that improved overall system scalability and performance.

INDEPENDENT PROJECT

Python library for Multi-document classification

Created a library for Multi-document classification. Here I used Multinomial Naive Bayes Algorithm for Training the ML Algorithmm.*Python*
https://github.com/nithin-kumar/multinomial_bayes_classifier

Question Word Predictor

A Classification system which which predict the Question word from the given question.It is a Supervised Machine learning program which uses Multinomial Naive Bayes with Laplace smoothing to classify the Question*Python*
https://github.com/nithin-kumar/question_type_predictor

Sentiment Analysis on Movie Reviews

This work involve a way of predicting the sentiment of users review on movies. Used a probabilistic way of solving problem using Multinomial Naive Bayes Algorithm.*Python*

<https://github.com/nithin-kumar/sentiment-analysis> **Phrase Based Statistical Machine Translation System for English to Malayalam and Malayalam to English(Academic)**

This work involves translation of English language to Malayalam and Malayalam to English. System is programmed to learn linguistic rules for translation from the large parallel corpus. Here we created 3-gram language model for translation. Duration: 12 Months

Language: Python, Java

Tools used: SRILM, Giza++, Swing

https://github.com/nithin-kumar/statistical_machine_translation **Key phrase Extractor**

Designed and implemented a Machine Learning algorithm to extract key phrases from documents.*Python*

https://github.com/nithin-kumar/keyphrase_extractor

Web Crawler+ Indexer

This program crawl the web to a specified depth starting from a source page and build index for searching. *Python*

https://github.com/nithin-kumar/web_crawler

EDUCATION

Govt. College of Engineering, Kannur, Kannur University, Kannur, Kerala, India

B-Tech in Computer Science and Engineering(70.06%)

September 2009 – June 2013

Higher Secondary, Madayi GBHSS, Kannur, Kerala, India (86.15%) **June 2006 – March 2007**

SSLC, Kunhimangalam GHSS, Kannur, Kerala, India (87.5%)

June 2005 – March 2006