

# Kaarthik Rao Bekal Radhakrishna

Software Developer

+49-17641994918



Paderborn, Germany



kaarthik.rao90@gmail.com



karthikraobr.github.io



karthikraobr



/1309509/geekboy



/in/karthikraobr

## Competencies -

Go • C# • Git

SQL • LATEX • Java • JS

Nim • Python • Microservices • Alexa

## Languages -

English

German

## Interests –

Automobiles, Javascript, Travelling and Food.

#### **Education**

Oct 2015 -**MSc., Computer Science** Present

University of Paderborn, Germany

Sept 2007 - BE., Information Science July 2011

Visvesvaraya Technological University, India

## **Experience**

Mar 2016 -Dec 2017

Go Developer

- Developer in the Research & Innovation department.
- Co-developed a Go wrapper for NXP's NFC Reader Library. • Built a REST wrapper for Shared libraries using Nim.
- Built an Amazon Alexa skill in Go which controls TV screens and dispenses cash from an ATM.
- Fixed bugs in the implementation of a proprietary encryption algo-
- · Stack: Go, Nim, MQTT.

July 2011 -**Full Stack Developer** Sept 2015

Sonata Software, India

Diebold Nixdorf, Germany

- Co-developed a multi-tenant document management system which facilitated tag-based document access along with search capabili-
- · Designed and developed a solution which filters rules based on certain combinations, from a collection of more than 500,000 rules.
- Migrated a data-intensive commercial web application from jQuery
- Stack: C#, Windows Azure, LINQ, MVC3/4, ASP.NET, ADO.NET, Entity Framework, ¡Query, AngularJS CSS, HTML, solr.

#### Research

August 2017 -Incremental Support of Static Analysis Code Fraunhofer IEM, Germany March 2018

- Master Thesis
- Extend the Soot static analysis framework to support incremental updates to the analysis code.
- Design and implement a novel method to incrementally update the analysis when it undergoes incremental changes.
- Stack: Java

## **Projects**

- · VisuFlow An Eclipse plugin for developing Static Analyses using the Soot static analysis framework. A technical paper was published based on this tool. github.com/VisuFlow
- go-nxprd GO wrapper for NXP's NFC Reader Library for the Raspberry Pi. github.com/hohlerde/go-nxprd
- gAlexa An Alexa skill developed in Go, used for controlling TV screens and dispense cash from an ATM, using the MQTT framework. Works in conjunction with a client.
- nim2Rest A REST wrapper for shared libraries built using nim. github.com/karthikraobr/nim2Rest

#### **Achievements**

June 2016 - Advisor Present

Walnuts, India

• One of the tech advisors and developer of the CMS system.