Kaarthik Rao Bekal Radhakrishna

Software Developer

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Competencies ——

Go • C# • Git

SQL • LaTeX • Java • JS

Nim • Python • Microservices • Alexa

Languages ————

English

German

Interests ——————

Automobiles, Javascript, Travelling and Food.

Education

Oct 2015 - Present	**MSc., Computer Science**	University of Paderborn, Germany
Sept 2007 - July 2011	**BE., Information Science**	Visvesvaraya Technological University, India

Research

August 2017 - Present — **Incremental Support of Static Analysis Code** — Fraunhofer IEM, Germany

- 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, Git

Experience

Mar 2016 - Dec 2017 — **Student Research Assistant** — Diebold Nixdorf, Germany

- Developer in the R&I 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 brings up a file on all the connected clients.
- Fixed bugs in the implementation of a proprietary encryption algorithm.
- **Stack**: Go, Nim, Git.

July 2011 - Sept 2015 — **Full Stack Developer** — Sonata Software, India

- Developed a search engine based on SOLR.
- Built an engine 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 to AngularJS.
- **Stack**: C#, Windows Azure, LINQ, MVC3/4, ASP.NET, ADO.NET, Entity Framework, jQuery, AngularJS CSS, HTML, Git.

Projects

- **VisuFlow** - An Eclipse plugin for developing Static Analyses using the Soot static analysis framework.
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.

- **Mobile Invoice** - A bill payment mobile application built using J2ME and MS Access.

Achievements

June 2016 - Present — **Advisor** — Walnuts, India

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