Niranjan Awati

IoT junkie, Go Lang developer

Seasoned **Go Lang developer** with solid **18 years** of **total experience**. An avid **IoT** junkie, building prototype solutions atop single board computers for their sensing capabilities & cloud connectivity. He is adept at developing containerized REST API for the web & concurrent applications on IoT devices using Go Lang. He has also, in his past contributed extensively to learning functions of his organization.

Contact

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Education

2004
Bachelor of Mechanical Engineering
Pune University

Awards

1. **Most valuable programmer, Infosys (2009)**
2. **Boeing Pride (2008)**
3. **Boeing Pride (2007)**

Skills

1. **Go Lang**
2. **AngularJS**
3. **Raspberry Pi**
4. **Docker**
5. **Python**
6. **MongoDB**
7. **VBA**

Experience

Nov 2022 - today
NCS-i | Pune
Senior software engineer

Fairprice : WebAPI , microservices

#Go #Docker #JSON #Redis

Hired to develop back end web services on **Go Chi framework** for a shopping cart micro service. This involved developing a endpoint for complete shopping **cart CRUD** on Redis Cache. This project involved **TDD approach to software** development. End result is to be a cart micro service that would en-mesh with other services eventually to power Fairprice website. Micro services thus developed were deployed using bitbucket CICD.

Fairprice : Barcode helper chatbot

#Go #Docker #JSON #Redis

Retail outlets where the consumer picks up goods pre-ordered have frequent issues with **bar code mappings and pricing updates**. Store cashier working on kiosks inside the stores needed **fly-assistance to either correct / fetch latest data**. A **GO** powered **chatbot** based on Google **Dialogflow** was developed tailor-made for the client. A simple **MySQL** database served as a source of truth.

Apr 2022 - Nov 2022

Dheeti Technologies | Pune
Senior software engineer

WICWUG: REST JSON WebAPI development
#Go #Docker #JSON #PostgreSQL

Hired to build from ground up, maintain, a **Go Lang REST JSON API** atop PostgreSQL for a **document vault**. Job entailed designing, developing, writing test code, and maintaining GitHub repository. End result was an portable dockerized application that could store document details, their authenticating digital signatures and its prescribed **workflow**.

Reference

Jayram Joshi in
Owner, Dheeti Technologies

Sandeep Bhonde in
Delivery Lead, NCS-i

Languages

Interests

Home Automation

Niranjan is an avid home automation junkie. He has multiple appliances that he has connected to the cloud. He builds his own prototypal PCBs, with handmade embedded ware and cloudware.

Aquaponics

Niranjan is also trying out his hands at soil-less urban farming using recyclable water from domestic aquarium

Badminton

Trained for 16 years, Niranjan played at various levels in his prime years, but now uses badminton as a tool to keep himself fit

Gardening

Niranjan maintains a small yet diverse balcony garden. He is keen on reviving traditional techniques to get more yield

Experience

Oct 2018-Mar 2022
Infosys I Pune

IoT developer

SmartYard: RFID based smart paring lot

#Go #Docker #AngularJS #D3.js #Bootstrap #RaspberryPi

Automotive OEMs require **managed parking spaces** for production roll outs. Cars fresh out of quality checks are to be parked on yard / inventory spots that are the most convenient for meeting the delivery deadlines. Quality checks reveal the rework and the time required to fix the defects, which implicate optimal parking of vehicles in the lot. A Go powered **IoT device** and **cloud** REST JSON API (Go App on Docker) could provide the data and logic, while graphical web front-end was achieved with AngularJS D3.js atop HTML 5 CSS.

AmbientSense: IoT based air quality index

#Go #Docker #AngularJS #D3.js #Bootstrap #RaspberryPi

Hazardous gas tracking system for small / medium enclosures. An **IoT device** on the ground senses gaseous composition of an enclosed space for the presence of CO, CO_2 , uploads live values to a cloud database which then drives descriptive analytics on a web application. **Containerised Go app** on RPi connected to the JSON REST API (Docker ized Go Gin application) on the cloud via HTTP. Datastore used was MongoDB while AngularJS was used for web development.

Sep 2016 - Oct 2018
Infosys I Pune

Full stack web developer

SkillMiner: Workforce-training-gap analysis

#Go #MongoDB #D3.js #Bootstrap #AngularJS

Responsive **web application** to map the **skillsets** and **demography** of the workforce. Skills hierarchy and the workforce form a 3D matrix that, if mapped, can give the exact path of training and certifications. An **Go application (**This was initially conceived in Python-Django**)** could give detailed insights into the skill distribution of my organization.

Miners Ark : Mining vehicle tracking application

#Go #MongoDB #D3.js #Bootstrap #AngularJS

Mining vehicles plying between the mining site and the refinery need a **tracking** application for the payload they carry, start time, estimated time of arrival so that the vehicle providing vendor can bill appropriately. A web application was developed using **Go Gin as the backend while HTML5 CSS3 AngularJS** Bootstrap on the webside.

Reference

KNS Acharya

former Head Engg. Academy, Infosys
Vice Chancellor, GITAM university

Victor Sundarraj in

Head Engg. Academy, Infosys

Side projects

Autolumin

This IoT project involved programming a single board computer to actuate electrical switches. This device was cloud connected/driven device which could take remote commands from any place that has internet. Enabled the user to not only control electrical switches on the move but also schedule / program them on the clock. Using responsive web application the user could use any handheld or laptop to throw the switches

Aquaminder

This IoT project involved programming a single board computer to monitor a domestic aquarium. Fish & the vegetation need tight control of various parameters viz: Light intensity, aeration, filtration duration. This IoT device maintained the aquarium even when the owner was away on vacation.

Experience

Oct 2009 - Dec 2016
Infosys I Mysore

Technical evangelist

Lecturer: CAD automation

#VBA

Entrusted with training newbies of the engineering group to get them productive on **3D CAD automation using VBA.** This involved developing lecturing course ware and course demo projects. Trained about **550 candidates on VBA** and got them ready for projects in the engineering space.

Lecturer: Web development

#Python #Bootstrap #AngularJS

I was entrusted with **training** new candidates on web development, with focus on **AngularJS, Bootstrap, Python-Django**. This entailed development, delivery of course ware, and building demo laboratory projects. **Trained about 500 candidates** and helped them clear the internal **certifications**. Also made them ready to be absorbed into projects.

May 2007 - Oct 2009
Infosys I Mysore

KBE programmer

Adstack: 3D geometry space position measurement

#VBA

3D CAD geometry for an aerospace client needed mass measurement of point co-ordinates. Such measured co-ordinates could then be fed into CNC controls for precision manufacturing. **VBA application atop CATIAv5** then using an innovative caliper method could do this, **saving considerable manual effort**. The project won an award from the client for the the most innovative solution in CAD automation

Ply tool: 3D virual geometry for composites

#VBA

Aerospace wing panel have **3D geomtery definition** (virtual) which can be templated in CAD softwares, and such can be automated for **what-if analysis** using **VBA**. This application was capable of generating multiple **geometry with dimensional variation,** a family of components in CAD. The application was delivered and used in client production environment for a year. Also won numerous awards for saving time and manpower.

Intent

Niranjan is seeking full-time working opportunities in software/IoT development. He prefers projects that grant avenues to learn deeper and wider so as to stay on the bleeding edge of technology. Given an opportunity, Niranjan would choose to work remotely or in a hybrid environment.

Reference

Avinash Patil in
Delivery manager, KBE Infosys

Rohit Gupta in
Senior Project Manager, Infosys