Koushik Shetty

Application Developer

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⚑ Bangalore

🗓 1989-07-24

Experienced Full Stack developer with 5+ years of hands on experience in design, solution, development and unit-testing of well formatted software with stress on simple and generic programming. Adherence to agile practices like TDD, Iterative development, testing pyramid, CI/CD, pair-programming, DevBox testing. Experience in IT(Electronic Medical records) and electronics industry(Industrial Automation).

Skills

- **GoLang**
- **JavaScript(ES5/ES6), ReactJS, Redux, Flux,React-Router, Node.js, Engine.IO, ImmutableJS, Lodash, JSON, Axios, fetch API**
- **Mocha, Chai, Airbnb Enzyme, Sinon with karma and jest test runners**
- **C++, C++11**
- **ReactNative(Android, iOS)**
- **LabVIEW(2010, 2011, 2013)**
- **Visual C++, Visual C#**
- **Amazon S3 and Google Cloud for infrastructures, Imgix CDN and image service**
- **NoSql(Google Appengine Datastore)**
- **SQL(Postgres)**
- **Git**
- **Webpack, Gulp, Makefile, Node, NPM, Glide, Yarn**
- **NI-sbRIO, Toradex Colibri(T20, VF50), MSP430 (2xxx, 5xx)**
- **RT OSes(WinCE7, VxWorks)**
- **HTTP(REST), Google ProtoBuf(Golang), USB, I2C, SPI, UART, TCP Protocols**

Experience

2016-07 - present

Application Developer

ThoughtWorks, Bahmni, Bangalore

Bahmni

An open source hospital management system initiated and primarily developed by ThoughtWorks. It is

targeted towards low resource systems and rural centers. It is built on top of OpenMRS, OpenERP and OpenELIS, written as a modular configuration based system.

The client side is primarily written in Angular, server in Java and MySQL for database.

Worked on the Implementer interface stream and currently working on the Medication module stream.

Implementer-Interface

- Drag and Drop Forms Editor application.
- Pure front end application using JavaScript(ES6) with ReactJS for rendering, Redux for state management and react-router for client side routing.
- Reused existing server endpoints for forms CRUD.
- 2 repositories, an application(Implementer-Interface) repo, and control components library(form-controls) repo.
- Credited for designing and creating features like generic control-independent Drag-and-Drop, Layouting of controls, control registration and discovery(allows 3rd party controls too), Design-time and run-time controls, Angular and React integration, etc.
- Integrated React forms into existing Angular based front end system, strangling out older forms part by part.
- Form is represented as JSON. Hence enabling manual editing too.

Medication Module

- Revamping of the exiting medication module, which includes, moving the existing angular module to react while still maintaining the integration between the existing modules intact.
- Developing common components and bringing feature-parity with existing application.

Website: http://www.bahmni.org/

Repo: https://github.com/Bahmni

2016-12 - present

Freelance

Bangalore

4Bench

- A school networking app designed to connect teachers with parents and students. Targeted for Android and iOS platforms and a Webapp.
- Targeting Teachers,parents and students from kindergarten to 10th grade.
- Features Includes Post, one-way messages, Attendance, Event Calendar, NewsLetter, Marks Chart, Book Recommendations.
- Android and iOS app being built using React Native.
- Website being built using React for rendering and Redux for state management and react-router for routing.
- Backend server in GoLang.
- Google AppEngine NoSql Datastore for database
- Google AppEngine PaaS for server hosting.
- Amazon S3 for media storage and retrieval.

2015-07 - 2016-07

Application Developer

ThoughtWorks, Largest Management Consulting Firm, Bangalore

A decision support system(DSS). Using Data Visualization to analyze data and manage performance throughout the organization.

- Using Tableau as the charting and data analytic service.
- Used ReactJS for client side rendering, Reflux for state management and react-router for routing.
- GoLang for backend server and Postgres for database.
- Created a naive PPTX generation service in GoLang.

2012-04 - 2015-06

Senior Design Engineer

Arete Automation Systems, Bangalore

Productivity Monitoring System

- 2 variants: 1) RT Controller + server + client, 2) HMI + server + client.
- Designed, Developed both the Server **,** Client, Data mining Applications for control and monitoring of

Industrial production floor.

- Used LabVIEW 2012 on Windows and VxWorks based NI-sbRIO platform (variant 1).
- Used Visual C# on WinCE7 for Toradex Colibri platform (variant 2).

Temperature Transmitter/Universal Converter

- Host Application for Configuring and Calibrating Arete TT/UT device.
- Used USB communication for Firmware Upgrade through TI Bootstrap Loader.
- USB Related API in C++, GUI in LabVIEW 2012(initially done in VS C++ 2008).

MSP430G2xx Series Flasher

- Field Firmware Flasher using UART Protocol in LabVIEW 2013.
- Provided Device Detection mechanism to detect the COM device.

Smart Vehicle Separator

- Embedded Standalone module using MSP430g2553 Controller programmed using C in TI CCS v6.
- Developed vehicle separator module to be used in the WIM dynamic weighing device using LabVIEW 2012.

Education

2008-06 - 2011-06

Bachelor of Engineering in Electronics and communication, City Engineering College, Bangalore

2007

PCMB, St. Josephs Pre-University College, Bangalore, Karnataka

2005

Baldwin Boys' High School, Bangalore, Karnataka.