Akshay N Shaju : Staff Engineer - AI / ML

## Machine Learning Engineer | AI Enthusiast | Reverse Engineer | Full Stack Web / Mobile / Desktop Developer

NAMBIYATH HOUSE

VARANDARAPPILLY P O

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# PROGRAMMING LANGUAGES

Java, Swift, Php, Node.js, Python 2/3, Typescript, Javascript, Kotlin, Golang

# SKILLS

## **AI / ML TECHNOLOGIES**

NLP Engines - Dialog flow, Rasa NLU, Actions on Google, Alexa skills kit, Cortana Skills, Program O, Tensorflow, Scikit-learn, Microsoft Azure machine learning studio,

##

## **FRAMEWORKS**

Bootstrap, Foundation, Microsoft Bot Framework, Angular JS/Typescript, React-JS, JQuery.

## **MOBILE APP DEVELOPMENT**

Android Java/Kotlin, Swift, Apache Cordova, Ionic, Native Script

## **CLOUD PROVIDERS**

Amazon AWS, Microsoft Azure, Google Cloud, Digital Ocean.

## **IDE’s**

Android Studio, Microsoft Visual Studio, Xcode, Eclipse, Adobe DreamWeaver.

## **CONTENT MANAGEMENT SYSTEMS**

Wordpress, OpenCart, Magento​ , ​Joomla, Laravel, Codeigniter.

## **SERVERS**

Nginx, Apache 2, IIS, Ubunutu Server, Cent OS.

## **ANALYTICS TOOLS**

Google Adsense, Crashlytics, Firebase, Facebook Analytics.

## **DATABASES**

Cassandra, MySQL, MongoDB, SQLite, YugaByte DB, Redis Cache, Maria Db.

## **PACKAGE MANAGERS**

Composer, NPM, Yarn, PIP.

## **VERSION CONTROLS**

Bitbucket, Github, Perforce.

## **STYLE SHEETS**

CSS3, LESS, Sass.

## **MARKUP LANGUAGES**

HTM5, Json, XML, XAML, AIML, OWL (Ontology Web Language).

## **TECHNOLOGIES**

RabbitMQ, Zoho Mail, G Suite, DKIM, DMARC, Docker, Kubernetes, Kong JWT, Grafana, Prometheus, .

# Fulltime Experience

## October 2017 - PRESENT

### bitWise Academy*- Associate Staff Engineer ( AI / ML )*

FREMONT, CALIFORNIA, UNITED STATES / COIMBATORE AREA, INDIA

* Architected and maintaining the bitWise Microservices platform using Kubernetes and JWT.
* Managing containerization with Docker
* developing ML models/services to use within bitwise LMS platform.
* Version management of code and ensuring the quality of code written by every person in the team.
* Architecting major cutting edge ML / Microservices platforms for enterprise use for prestigious clients.
* Architecting the LMS platform for personalized Course lessons with ML.
* Managing a deployment of around 20 servers in Microsoft Azure.
* Implementing and maintaining a server to server/server - git automation platform with Jenkins.
* Implement a Secure SSO server to use within all bitWise platforms.

#### Technologies worked on:

Tensorflow, Microsoft Azure machine learning studio, Microsoft Azure, YugaByte Db, Rabbitmq, Node Js,NPM, Yarn, Composer, Python2/3, PIP, Github, Nginx, Apache 2, Apache Solr, OWL (Ontology Web Language),PHP, Ubuntu Server, AIML,, Apache Solr, Actions on Google, Alexa skills kit, Cortana Skills, Dialog flow Luis,Kubernetes, Docker , Kong JWT, SSO, Sentiment Analysis, Survive Prediction.

## July 2017 - October 2017

### RintzOnWeb Software Solutions ( SafeGlaze Private Limited )*- Sr Engineer (Innovation Team)*

* Discover cutting-edge new technologies, identify the ones with potential and implement them on the required teams.
* Managed a core team.
* Managed Multiple 50K visitors per day applications.
* Maintained day to day activities and managing the development team for the same.
* Do A/B testing accordingly to find the best method to acquire more customers and leads.
* Make sure of the deliveries from different teams.

#### Technologies worked on:

Cassandra, Orientdb, Android Studio, Java, Node Js,, Apache Cordova, Angular JS. Typescript, Swift, Xcode, Adobe tools, Google analytics, Facebook analytics, HTML5, CSS3, Javascript, Jquery, Php, Bootstrap, Google Adsense, Google Analytics, Facebook Analytics, Adobe Photoshop, Github, Bitbucket, Mysql, Maria Db,, Jason, Linux server management, Domain management, Email management, Amazon Aws, Microsoft Azure, Google Cloud, Ubuntu Server, Yarn, Zoho Email, G Suite, Managing SPF/DKIM/DMARC, Eclipse, Xcode,

## January 2017 - July 2017

### RintzOnWeb Software Solutions ( SafeGlaze Private Limited )*- Software engineer*

* Managed the backend as well as the front end of a 10K daily visitors website / android app.
* Develop and Maintain e-commerce android / iOS apps
* Maintained and Developed new features and bug fixes for Internal CRM system.
* SEO Friendly pages creation.
* Develop Multiple Android / Desktop applications for Internal uses

#### Technologies worked on:

Bootstrap, Google Adsense, Google Analytics, Facebook Analytics, Adobe Photoshop, Github, Mysql, MariaDB, HTML 5, CSS 3, Javascript, Jquery, Php, XML, Wordpress, OpenCart, Magento​, Joomla, Laravel, Codeigniter, Perforce, Composer, Json, Adobe DreamWeaver, Nginx , Apache2 , Amazon AWS , android studio, Xcode,

# Freelance Experience

### Quadsen, UK, UAE, INDIA, MALAYSIA *- REMOTE WORK*

* Develop and maintain multiple websites and it’s backend
* Develop applications for internal uses

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#### Technologies worked on:

Java, Android Studio, Firebase, Crashlytics, Ubuntu Server CentOs, Realm, SQLite, MySQL, HTML5, CSS3, Javascript, Jquery, Php, Firebase.

### Manarat Al-Dhaklia LLC, Muscat Oman *- REMOTE WORK / ONSITE*

* Develop and maintain AI driven Application to improve business and team management.
* Develop and Maintain cutting-edge apps for employee management, Financial Managment
* Develop Desktop applications for internal uses.

#### Technologies worked on:

Java, Android Studio, Firebase, Crashlytics, Ubuntu Server CentOs, Realm, SQLite, MySQL, HTML5, CSS3, Javascript, Jquery, Php, Firebase.

### Aluglaze India private limited

* Develop and maintain their corporate website
* Develop and Maintain their CRM on multiple platforms

#### Technologies worked on:

Java, Android Studio, Firebase, Crashlytics, Ubuntu Server CentOs, Realm, SQLite, MySQL, HTML5, CSS3, Javascript, Jquery, Php, Firebase, Google Map APIs.

# Other Freelance Projects

**An open source chatbot framework**

AIML, bot framework

Developed and published a complete chatbot framework with AIML backend.

Link: https://github.com/Akshay-N-Shaju/eva-chatbot-v2

**An Employee Tracking Application**

AI | ML | Android | iOS | JAVA | PYTHON

An Employee tracking application. which can track Location, average traveling speed, time spend on each location, working hours, and much more. With machine learning It will analyze the places you have visited to generate your interest list and gives you suggestions with matching places.

**Chatbot Driven Product management system ( AI )**

AI | Android | Web | Bot Framework

A chatbot drove Product management system

**A natural language interface to the college database**

AI | NLP | PYTHON

A natural language interface to the college database system to retrieve the queries easily from the database

**Handwriting Recognition**

AI | ML | PYTHON

A tool that can convert your handwriting to editable text format.With machine learning the system adopts more patterns/types of handwriting and When the same person tries to convert text second time, the system predicts his name by analyzing all the previous conversion data ( not completely perfect ).

# Education

##  2013 - 2017

### Excel Engineering College ( Anna University), Erode  *-*

### Bachelor of Engineering (B.Eng.)

### Computer Science and Engineering (Completed)

MAJOR PROJECT: AI Driven staff/student management portal

AI | ML | PYTHON | JAVA | PHP | Node JS

A platform that analyses each and every student and predicts their interests. Based on the data the system provides personalized suggestions. Also, the system checks their performance levels for the past couple of days and informs the respective subject staff if there any major variation in the score rythm and much more .

## **C.J.M Assumption Higher Secondary School** / Higher Secondary Education

## Computer Science / Maths

### 2011- 2013, VARANDARAPPILLY AREA, KERALA - INDIA

## **C.J.M Assumption Higher Secondary School** / Secondary Education

### 2010 - 2011, VARANDARAPPILLY AREA, KERALA - INDIA

# Awards

**Secured first position in Android app development contest conducted by Revert Technologies and Finland labs in Association with IIT Roorkee**

# Contact Info

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# Online Profiles

<https://www.linkedin.com/in/akshaynshaju/>

<https://github.com/Akshay-N-Shaju/>

<https://stackoverflow.com/users/6336955/akshay-n-shaju>

<http://www.akshaynshaju.com>