

Harshal Bhamare

Pune, India

Mobile: +91- 9405371531 E-Mail: harshalcse2910@gmail.com

Senior Software Developer, Digital Katalis Labs, Pune.
6.10 Years' Experience

Brief Introduction

- **Objective:** Software Engineer with 6+ years of experience executing data-driven solutions to increase efficiency, accuracy, and utility of internal data processing. Experienced at creating data regression models, using predictive data modelling, and analysing data mining algorithms to deliver insights and implement action-oriented solutions to complex business problems. Looking to use my Bachelor of Computer Science and Master of Engineering in Information Technology to do machine learning and data-related solutions at your organisation.

Technical Skills

IT SKILLS

- Languages are known: Python, Node.js, JavaScript, TypeScript, jQuery, Backbone.js, shell script.
- Cloud Services: GCP, AWS EC2, AWS Lambda, AWS IAM, AWS Sage Maker, AWS S3 Bucket, AWS SNS, AWS Timestream, AWS EKS, AWS ELB, AWS EBS, Ali Cloud, Azure, Nginx.
- AI/ML: Python, Tensorflow, Keras, OpenCV, CNN, NLP.
- DevOps: Docker, Kubernetes, Gitlab PipeLine.
- Database: Mysql, PostgresSql, Oracle 12c, mongodb, Cassandra, Redis, GraphQL.
- Data Streaming & Big Data: MQTT, VerneMQ, RabbitMQ, Kafka, Grafana, Graphite, Prometheus, Kibana, Dyntrace.
- Security: SSL, JWT, OAuth2.
- API Performance Testing: LOCUST (Python Open Source Tool), API automation, Jest, Mocha.
- Web Development: HTML, CSS, XML, JSON, CSV, XBRL, XHTML, iXBRL.
- Operating system: Mac OS, Windows, Linux Flavours like Ubuntu, CentOS, RedHat, Fedora etc.
- Ide's: VS Code, WebStorm, PyCharm, Visual Studio 2013, Notepad ++, Robomongo, MySQL Workbench.
- Protocols: RESTful, websocket, mqtt.
- Package Manager: NPM, Grunt.

CAREER HIGHLIGHTS

Digital Katalis Labs, Pune.

Lead Backend Engineer.

Duration: 12/2020 to Till

Key knowledge areas in Enterprise Mobility, Web and Machine Learning:

- Experience in Node.js, TypeScript, hapi.js, GraphQL, mysql, mongoDB, AWS,GCP, Kafka, Unit testing framework like JEST, Mocha etc.
- Experience in Docker, Kubernetes, Gitlab PipeLine.

Tata Technologies Ltd.

Senior Software Engineer Connected Enterprise IT, Tata Technologies Ltd.

Duration: 06/2018 to 10/2020

Key Projects:

1. **Connected Vehicle Platform :** Implemented using Microservice kind of architecture which contains services like Vernemq, Kafka, Postgresql, Cassandra, API-Gateway, Nodejs, python, RASA chatbot, AWS EC2, S3, VPC etc.

2. Tyre Stencil Number recognition and tyre pattern recognition:

- We used OpenCV, YOLOv3 algorithm to train machine learning model to apply bounding box to stencil text area and each character and digit of stencil number. We train that model on AWS P3 type GPU instance which is having 16 core processor and Tesla GPU with dataset of near about 400000 images.

4. Tyre Defect Detection Using Mask-RCNN

5. VIN number recognition using TensorFlow Object Detection.

Key knowledge areas in Enterprise Mobility, Web and Machine Learning:

- Experience in designing and development in PAAS, SAAS, DAAS.
- Hands on Experience on Big Data architects and implementation
- End to end experience in server set up for model building in Deep Learning with optimised software and hardware resources including GPU's and CPU's with scalable and high-performance environment.
- Familiarity with cloud message APIs and push notifications with Google as well as AWS.
- Good knowledge in setting up Backend Services on AWS EC2, S3, SageMaker, Lambda Machine Learning environment and Physical Server.
- Strong knowledge in developing REST and SOAP web services.
- End to end Full Stack Development Knowledge of web Solutions and backend development of mobility solutions.
- Experience in database design and ER-Diagram design.
- Preparing technical solution and architecture documents, artifacts, work products and presentations for the customer.
- Understanding of the full platform development lifecycle from requirements gathering to design, construction, testing, and maintenance.
- Working experience with HTTP, MQTT, RabbitMQ, COAP Protocols.
- Perform Project Life Cycle – Analysis, Design, Construction, Testing, Training, Implementation and Documentation.

Organiza Tech Pvt Ltd, Navi Mumbai

Full Stack Developer

Duration: 02/2017 to 05/2018

Key Projects:

1. Data chunking using Natural Language Processing.

- Using python NLTK we identify and compare ixbrl(xhtml) and xbrl(xml) document then if document does not contain any difference then its threshold value is 1 if it contains some difference then threshold value is below 1 and chunk that document from that point of difference. We also used regular expression to find html tag and words.

2. Auto tagging financial facts to HTML document.

- Based on previous historical XBRL data we train model using NLTK to do auto tagging on html and xml document.

Key knowledge areas in Web Development and Natural Language Processing:

- End to End Machine Learning model development, training using Tensorflow, Python, Numpy, Matplotlib.
- End to end NLP development and maintenance using python, NLTK.
- End to end Full Stack Web Development
- Hands on Agile methodology, Scalability, Robustness in application Development.
- Experience using front-end frameworks such as Bootstrap, Backbone, jQuery, HTML, CSS.
- Experience in backend JavaScript frameworks such as Node.js, Express.js, Backbone.js, underscore.js, IO.js, socket.js.
- Experience in Database schema design and stored procedure in MySQL, mssql and NO-SQL databases like MongoDB and Redis.
- Deploying application, services on AWS EC2, Nginx using process management tool pm2, cronjob.
- Experience development of backend services in python and Node.js.
- Experience DevOps Tools like Docker, Jenkins, Kubernetes.
- Working experience with HTTP, RabbitMQ Protocols.
- Experience in Test Driven Development modules like Karma, Mocha.
- Strong knowledge in developing REST and SOAP web services.

- Experience in AWS S3 bucket storage and manipulation of data.
- End to end experience in server set up for model building in Machine Learning with optimized software and hardware resources with scalable and high-performance environment.

Ez-XBRL Solutions Pvt Ltd, Navi Mumbai

Full Stack Developer

Duration: 03/2016 to 02/2017

Key Projects:

1. Integix:

- Integix is an integrated cloud-based reporting solution enabling real-time editing and review in a collaborative environment. It enables you to work with multiple document formats, generates output in EDGAR HTML, Inline XBRL, standard SEC XBRL, and PDF formats.

2. XOR: It is online xbrl and ixbrl reviewer cloud-based tool.

Key knowledge areas in Web Development

- Experience in End to Application Hosting and Security in Data, Application, Infra-Structure.
- End to end Full Stack Web Development and Maintenance
- Experience using front-end frameworks such as Bootstrap, Backbone, jQuery, HTML, CSS.
- Experience in backend technologies such as C#, Asp.Net, Node.js, Express.js, underscore.js, IO.js, socket.js.
- Experience in Database schema design and stored procedure in MSSQL and NO-SQL databases like MongoDB and Redis.
- Deploying application, services on AWS EC2 for windows and linux, Nginx, S3.
- Experience using process management tool PM2, cronjob.
- Hands on SVN, GIT.

Iris Business services Ltd, Navi Mumbai

Software Engineer,

Duration: 09/2014 to 03/2016

Key Projects:

1. iFile Client:

- Windows Excel VSTO based desktop application developed using Microsoft .Net and C#, SQL server.

Key knowledge areas in Windows, Web Development

- End to end Windows, Web Development and Maintenance
- Experience in C#, Asp.Net, VSTO, JavaScript. jQuery.
- Experience in Database like MSSQL.
- Hands on SVN, GIT.

LinkedIn Profile:

<https://www.linkedin.com/in/harshal-bhamare-9a657797/>

GitHub Profile:

<https://github.com/harshalcse>

Research Article:

- “Quality Inspection of Tire using Deep Learning based Computer Vision”
Presented at: - International Journal For Engineering Research and Technology (IJERT) Nov, 2019

Education Details

EDUCATION

EXAMINATION	SCHOOL/COLLEGE	BOARD/ UNIVERSITY	YEAR OF PASSING	Score
M.E.(I.T.)	VIT, Mumbai	Mumbai University	2019	8.31 /10
B.Tech.(COMP ENGG)	Dr. BATU, LONERE RAIGAD	Dr. BATU, Lonere RAIGAD	2014	6.64/10

Certification:

PG-DAC: Center for Development of Advanced Computing, C-DAC, Mumbai.

PERSONAL DETAILS	
DATE OF BIRTH	29 OCT 1991
PASSPORT NO	N2677894
LANGUAGES KNOWN	ENGLISH, HINDI, MARATHI