Aniket Katkar

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Professional Summary

A highly skilled problem solver and a highly productive programmer with Embedded/IOT/Android programming experience currently looking for a full-time opportunity to design and build high performance and optimized solutions for challenging digital world problems.

Education

PG-DESD (EMBEDDED SYSTEMS DEVELOPER) | AUG - 2015 | C-DAC, PUNE

B.E (ELECTRONICS) | 2015 | MUMBAI UNIVERSITY

HSC | 2010 | MAHARASHTRA STATE BOARD

SSC | 2008 | MAHARASHTRA STATE BOARD

Skills

DEVELOPMENT: C, JAVA, PYTHON, PHP

WEB TECHNOLOGIES: PHP, JAVASCRIPT, HTML, CSS, BOOTSTRAP, ANGULAR, MYSQL, WEB APPLICATIONS

MOBILE TECHNOLOGIES: JAVA, XML, ANDROID, ANDROID SDK, REST APIS

EMBEDDED SYSTEMS: C, OPERATING SYSTEMS, RTOS, IOT, IBM WATSON

OTHER: GIT, MICRO CONTROLLERS, ARDUINO, RASPBERRY PI

Experience

JR. TEST ENGINEER | UBISOFT ENTERTAINMENT STUDIOS INDIA PVT LTD (JULY 2018 – PRESENT)

- Employee Productivity Tracker (*PHP, MySQL, JavaScript, Bootstrap*):
  Developed a Web based application to track productivity of Employees in the project by analysis.
- Daily Task Mail Deployer (*PHP, JavaScript, MYSQL, Bootstrap*):
  Developed a Web based application to send Daily task mails to employees in a project.
- Xbox Build Installer (*Java, Xbox SDK*):
  Developed a native windows application to Install builds and change settings on the Microsoft Xbox console.
- Task Tracker (*PHP, MySQL*):
  Developed a web-based application to track tasks performed by employees for Managers to track them easily.
- Google Stadia Command Centre (*Python*):
  Developed a native windows application using Tkinter library in python and Google Stadia SDK to automate commands.

- GUI based Android Automation (*Java, Android ADB*):

  Developed a native windows application using AWT Java and Android ADB commands to perform automation on Android devices.

- Ticket Resolving Application (*PHP, MySQL, Bootstrap*):

  Developed a web-based application for resolving tickets raised by testers to developers for a small project base in place of Jira.

- Testcase Vault (*PHP, MySQL*):

  Developed a forum type application for testers to submit their testcases which are stored categorically and can be exported to Excel or XML.

- Trainee Examination Centre (*PHP, Bootstrap, MySQL*):

  Developed a fully scalable web-based application for examination of trainees as a replacement for Microsoft Forms and Excel.

SR. PRODUCT DEVELOPER | USHVA CLEAN TECHNOLOGY PVT LTD (AUG, 2016 – MAR, 2018)

- Intelligent Energy Management Systems (IEMS) (*Embedded Systems, IOT, Arduino*):

  Perform real time data analysis of Voltage, Current Readings, Packet Count, Timestamp and authentication parameters from Microcontroller TM4C 1294 (Product) to IBM Bluemix Server via ESP 12 using MQTT. Upgraded performance by integrating SD card support, one-time credentials for WIFI to IBM Bluemix servers (Cloudant NoSQL and Node Red)

- Smart Pole (*Embedded Systems, Python, MySQL, IOT*):

  Designed a solar powered smart pole which collects and analyses Air quality, Noise levels, Humidity samples using Raspberry pi and display in GUI (Python - Tkinter). Implemented IOT connectivity using IBM Bluemix and web application.

- Battery monitoring system (*Embedded Systems, MySQL, IOT*):

  Transfer of Battery parameters like Voltage, battery status, percent charging, number of charging-discharging cycles to IBM Bluemix server and display analysis on a Android application designed for IEMS.

- Monitoring device (*Embedded Systems, Arduino, IOT*):

  Designed a monitoring device (ESP32, GSM module) to read sensor values for IIOT applications to Web and Android applications for Data analysis.

- Web Based Application (IEMS):

  Developed a web-based dashboard (*PHP, MySQL*) that displayed the data and statistics of the Intelligent energy management system through IBM Watson and IBM Cloudant.

- Android Application for (IEMS):

  Developed Android application for monitoring the data received from IBM servers. Plotted Realtime, daily, monthly, yearly graphs of various derivatives of energy of the Intelligent Energy Management Systems (IEMS).

FREELANCING

- Smart Car Parking (*Embedded, IOT, Android, Arduino*):

  Designed and implemented a scalable scenario to tackle parking problems in urban cities. Used sensors to detect cars in a parking lot and display it on an Android app through IBM Bluemix.

- Home automation (*Embedded, IOT, Android*):

  Designed and implemented a basic home automation system using ESP8266 and GSM modules to control any application using an Android/Web application.

- Website Design and Development (*PHP, JavaScript, HTML, CSS, Bootstrap*)

  Designed and Developed Websites for Hotels, Event organizers and personal portfolios for designers.

- Buzalert (*Android*):

  Developed app for showing battery stats, theft alarm and battery alert alarms. (Live on Play store)

PROJECTS (ENGINEERING AND CDAC)

- Segregation of Objects based on Shape and Color using MATLAB and Robotic Arm (*MATLAB, Embedded Sys.*):

  The project was based on the Image processing toolbox of MATLAB to recognize color and shape of any object place in front of a camera. A robotic arm was used to segregate the objects in their respective units.

- CDAC – Linux USB device driver for reading data from GPIO port of Blue Board (*Embedded Systems*):

  The main objective of this project was to implement Linux USB device driver of mass storage on host machine with bulk endpoint. Data read from the GPIO port is shown on the host machine terminal. A test application with GTK based GUI was written for testing.