**RAKESH TAMMINENI**

#15,7th Cross, Mathru Layout, Yelahanka New Town, Bengaluru-560064, Karnataka, India

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**ACADEMIC QUALIFICATION**

**Bachelor of Engineering in Electronics and Communication Engineering,** Government Sri Krishnarajendra Silver Jubilee Technological Institute (GSKSJTI),Bengaluru, affiliated to Visvesvaraya Technological University (VTU), Bengaluru,Aggregate:75.3%, June 2017

**WORK EXPERIENCE**

**Associate Software Engineer, SASKEN Technologies Private Limited,Bengaluru, July 2018-Present**

**Job Responsibilities:** Working as a Full Stack Software Developer in the digital team

**Software Developer, Adisys Technologies (R&D) Private Limited, Bengaluru, August 2017-March 2018**

**Job Responsibilities:** Worked as a developer in the R&D division

**PROFESSIONAL PROJECTS**

**At Adisys Technologies (R&D) Private Limited, Bengaluru:**

**Real-Time Object Detection with Deep Learning, October 2017-March 2018**

**Brief Description:** We had to train our own model and had enabled it in detecting the vehicle density on the road and adjust the timer accordingly for the traffic signal.

**Individual Role:** Worked on training a model for our dataset and detected all the models of our interest

**Tools Used:** Python, OpenCV, numpy, Deep Learning, Neural Networking, Computer Vision, Tensorflow

**Image Detection and Alerting, October 2017**

**Brief Description:** To check if any element is stuck after the molding process in the molding machine

**Individual Role:** Worked on creating a region of interest (ROI) and processed that region to check and alertemployees in case any element is stuck in the machine

**Tools Used:** Python, OpenCV, Raspberry Pi

**Geo-Fence Creation and Monitoring, August 2017**

**Brief Description**: Enabling the parent to create/draw a fence on the map, activate it, and monitor their kids’ location in real-time

**Individual Role:**Worked on the front end, database creation, and real-time monitoring of the system

**Tools Used:**Html, CSS, Bootstrapping, JavaScript, MySQL, PHP.

**At SASKEN Technologies (R&D) Private Limited, Bengaluru:**

**Video Conference Application, July 2018-Present:**

**Brief Description**: A video conferencing app using vidyo api where more than 16 people will be conversing using a skype-like platform and also making sure that video quality is not deprived.

**Individual Role:** Working on the server side coding and video quality maintenance.

**Tools Used:** Java, JSP , hibernate ,Springs.

**ACADEMIC PROJECTS**

**Intelligent Driver Assistance, February-June 2017**

**Brief Description:**To create a processor-based control system that would intimate the driver of the obstacles ahead, limiting the speed in speed restricted areas, and helping the driver to overtake.

**Individual Role:** Contributed to the coding and development process in the three-member team

**Tools Used:**MATLAB,Embedded C, C++, and Arduino Ide

**Conversion of Non-touch Screen to Touch Screen (Individual Project), March 2016**

**Brief Description:**Developed a non-touch screen monitor into a touchscreen monitor using an accelerometer that enables reading of three coordinates and analog to digital conversion and gives it to the processor where the corresponding action is taken

**Tools Used:**Accelerometer, Analog to Digital Converter, and Processing Box

**Gear Display System in Bikes, September-December 2015**

**Brief Description:** Created a gear display system using 8085 microprocessor, a hall sensor,and display. The hall sensor would detect the motion of the gear rod and would take the corresponding action of counting up or down

**Individual Role:** As the team leader and spokesperson of the team of four, was the main lead in coding

**Tools Used:** Embedded C and MASM

**PAPER PRESENTATIONS**

* On the Performance of AOA Estimation Algorithms in Cognitive Radio Networks, Sasken Technologies, Bengaluru, 09/2018
* At Adisys Technologies, Bengaluru:
* Image Fast Template Matching Algorithm Based on Projection,02/2018
* Vehicle Detection using Simplified Fast R-CNN, 11/2017
* At Government SKSJTI, Bengaluru:
* Audio Spotlighting, 03/2017
* Reverse Image Processing,06/ 2017
* Channel Modelling of Underwater Acoustic Communication, 08/2016

**WORKSHOPS ATTENDED**

* Workshop on SQL Advanced and Java8 conducted by Sasken Technologies, 10/2018
* Entrepreneurship Awareness Drive, conducted by the Entrepreneurship Cell of IIT Kharagpur,10/2016
* JAVA Workshop, conducted by Infidata Private Limited, 05/2018
* Climate Change Quiz and Climate Sciences, conducted by Divecha Centre for Climate Change, at Indian Institute of Science, Bengaluru, 04/2015

**TECHNICAL SKILLS**

* **Languages:** C, C++, objective c, MATLAB,Verilog, VHD1, JAVA with Swings, J2EE,Springs, hibernate, HTML, CSS, bootstrap , angular 2, Python, SQL, PHP, C Sharp.
* **Operating Systems:** Microsoft Windows, Ubuntu
* **Web Programming/Scripting:** JavaScript, JSP, ASP.net
* **Tools:** Turbo C, P Spice, Solid Edge S4, Xilinx ISE, Cadence, MASM, Keil, CCS Studio, MATLAB, Arduino IDE, Eclipse, Anaconda, Python IDE, Visual Studio, [Tableau](https://www.tableau.com/)

**TRAININGATTENDED**

* JAVA and J2EE, Springs,SQL and Python Training conducted by JSpiders, Bengaluru, 05/2018 to 06/2018
* Ethical Hacking and Python Scripting, GSKSJTI, Bengaluru, 04/2016
* Sixth Sense Technology, conducted by Technophilia Systems and Robotics andComputer Application Institute, USA,04/2015
* IOT conducted by BITES, 03/2017

**EXTRACURRICULAR ACTIVITIES**

* College Sports Coordinator, 2016-2017
* Team lead, chess team of SKSJTI, Bengaluru, 2015-2017 and secured 12thrank in VTU Inter college chess championship, 04/2017
* Cricket Coordinator, Annual Sports meet, 02/2017
* Director of cultural and non-cultural activities in college, 03/2017
* Member, cricket, football and chess teams of GSKSJTI, Bengaluru,2014-2017
* ChessChampion of SKSJTI, Bengaluru, for three successive years, 2014-2016
* Won the best mini project award at SKSJTI, Bengaluru, 10/2016