G ARUN KUMAR

Summary

A passionate programmer looking for opportunities to make a difference in the society. Always keen on learning new technologies and bringing out innovative solutions to our problems. I would like to be a part of an organization where I could use and enhance my knowledge and talent for the development of both the organization and myself.

Personal Data

Date of Birth :	7 March 1995
Address :	127/3, Balwant Line, CMP Centre & School, Neelasandra, Bangalore, Karnataka, India
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Work Experience

Present Jan 2015	Intern at Dhashan Technologies, HSR Layout, Bangalore *C developer* Currently working on a project building an IoT (Internet of Things) framework, which can be used to setup an IoT network (*for eg. Home Automation, Smart City*). My work involves handling I/O communications, writing parser for the instructions given by the end user from the web application.
Jan 2014 Sept-2014	Intern at Smashing Pixels, Bangalore *Web Backend Developer* My work involved building the backend for the websites. Technologies used were *PHP, Wordpress, Laravel, Javascript, MySQL.*

Education

Current	Bachelor of Engineering in Computer Science & Engineering **PES Institute of Technology**, South Campus, Bangalore, Karnataka Percentage: 84% | Board: VTU *5* out of *8* semesters over
April 2012	12^{th} (*Science*) in **Army Public School**, Bangalore, Karnataka Percentage: 90% | Board: CBSC
April 2010	10^{th} in **Army Public School**, Bangalore, Karnataka CGPA: 9.8/10 | Board: CBSC

Computer Skills

Languages :	C, C++, Python, Java
Databases :	MySQL, MongoDB
Web Technologies :	HTML, CSS, Javascript, PHP
Tools & Frameworks :	Android App Development, Laravel, Wordpress, NodeJS, Arduino, BeagleBone Black, Matlab, LaTeX

Projects

GizMouse — Gesture Based Interaction with Computers *(WIP)*

Technologies: *Python, Octave, Arduino*

Domain: *Signal Processing, Machine Learning, Natural Language Processing*

It consists of a wearable device (Arduino and couple of sensors) that is mounted on the user's index finger on the both the hands using which mouse and keyboard actions can be emulated. User's index finger is traced for mouse movements. Keyboard actions are emulated by writing text in mid-air.

LeapTalk — Gesture to Audio/Text Conversion Tool based on LeapMotion controller

Technologies: *C++, Leapmotion controller*

Domain: *Machine Learning*

Conversion of sign language to text and audio using Leap motion controller. The target users are mute people and the app can be used in scenarios where mute people have to address masses, given that most of the people do not know sign language.

Twitter Analytics — Business Suite for analysis of Event-based tweets

Technologies: *Python*

Domain: *Machine Learning, Natural Language Processing*

The project is used for the analysis of data obtained in the form for tweets where the tweets belong to a particular event hosted recently. This data can be used by companies to see where their products(launched at the event) stand among users in terms of popularity.

Lego In Motion — 3-D simulation of Lego Blocks with Leap Motion Controller (WIP)

Technologies: *C++, Leapmotion controller*

Lego in Motion is a 3D simulation environment in which the famous "Lego blocks" can be assembled and connected in many ways to construct various objects like buildings, vehicles etc. In this simulation an external hardware, "LeapMotion" motion controller, is used to interact with the 3D objects in the scene. Using the motion controller the user is able to rotate, pick, drop and do various other interactions with the lego objects.

Web Apps — Recruitment Management Tool & Paper Reporting System for PESIT, South Campus

Technologies: *HTML, CSS, JavaScript, PHP, Laravel*

Publication — A Novel Probabilistic Strategy for Dynamic Load Balancing

Technologies: *MatLab*

Domain: *Machine Learning, Cloud Computing*

The paper proposes a two player game based strategy for resource allocation and load balancing in service computing domain such as cloud, grid etc.

Spinning Display — A rotating display using the concept of Persistence of Vision

Technologies: *C, BiBox microprocessor*

A vertical strip of LEDs is stuck to an arm that rotates. By controlling the blinking of the LEDs a virtual circular display is created on which text can be displayed

Achievements and Activities

- Winner, InGenius '14 Hackathon conducted at PES Institute of Technology, South Campus, Bangalore
- NCC C Certificate Holder from Kar 1 Battalion Senior Division
- Member of PESIT Elite Group - Group of top 5 ranks from every department
- Attendee of Recent and Emerging Trends in Computer and Computational Sciences-

RETCOMP'15

- 7^{th} Rank overall in VTU and 2^{nd} Rank in College in 2^{nd} year VTU Examinations
- Participated in various Hackathons such as *SequoiaHack '14, InMobi Hack '14, InGenius '14, MSRIT '14*
- Organized Online Treasure Hunt event for Activity Day '14.

Interests

Technical : Technology, Machine Learning, Competitive Programming
Others : Cricket, Basketball, Action-adventure Games

Declaration

I hereby declare that the above mentioned information is correct to the best of my knowledge and bear the responsibility for correctness of the above mentioned particulars.