

MANISH KAKOTI

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SRM University, Computer Science.

CGPA : 7.96 (7th SEM).

PROJECTS:

• SRM NANO SATELLITE PROJECT (SRMSAT V2.0)

Being an Onboard Computer Engineer, the task allotted to me is to find the best fitted microcontroller for the space mission. This involved testing of microcontrollers from the clock speed, memory compatibility, interfaces and protocols, Buses, electromagnetic wave endurences, as well as programming feasibility point of view. Apart from this, design of OBC system was also done to a certain extent. Keil (IDE) was mostly used for the testing purposes of OBC. The challenge faced was the power consumption rate, as the satellite uses limited supply of power, which made the selection quite difficult. Moreover, optimum usage of resources provided by the microcontroller was also kept in mind.

• PROGRAMMER AT TEAM 1.618 (hybrid vehicle team)

Worked as a python developer for the team, programming includes writing scripts over raspbian, to manage all the mode shifts happening within the vehicle while changing its phase from manual to electrical as well as hybrid. Arduino was used as a relay, where as rasppi was used as the master, which dictates over the arduino, and manages mode shifts avoiding deadlocks. <http://www.team1p618.com/>

• An Online study assistant, for interview preparations

Worked on a chatbot, which provides a platform for online interview sessions, the technologies used were Javascript, html, css, php and is deployed on heroku server. The demo version can be found at: <https://serieux-bastille-94059.herokuapp.com/>

* other major and minor projects can be found in the github link provided .

INTERNSHIPS:

• SOFTWARE ENGINEERING INTERN AT IIT GUWAHATI

Worked as a Summer intern, at UCCN LAB , IIT-G on an E-learning system project, where i was allotted the task to design an Online Compiler as a submodule for the system. The online compiler was written over LINUX(Ubuntu) using PHP, JQUERY, HTML, CSS. Security issues were considered as challenges and have avoided usage of pipeling and blocked system commands which might provide unintended root user access. The compiler can be used as class assessments by setting up privately for internal usage <http://www.iitg.ernet.in/cseweb/uccn/peoples.html>

• RUBY ON RAILS DEVELOPER INTERN FOR COMMUTATUS

Worked as a ruby on rails developer intern for a start up (COMMUTATUS), where the task was to contribute to the projects of the company, worked mostly on the front end part of the projects, written mostly on Ruby Slim. Also have written parts of codes for Controllers within projects. Projects that i have contributed to were Nadim, Amplio-App.

ACHIEVEMENTS:

- Placed 11th position at ACM ICPC Multi provincial contest held at Hindustan University
- Won best physics project at SRM University
- Placed 7 th at MATHLETICS conducted by Assam society of mathematics.

SKILLS:

Languages : C, C++, PHP, Javascript, HTML, CSS.

Frameworks : Ruby on Rails, LAMP, Nodejs.

Other Skills : Linux, Git, Heroku, AWS, IBM Bluemix.

CO-CURRICULAR ACTIVITIES:

- Attended workshop on robotics conducted by HELIOS IIT-Bombay.
- Attended workshop on embedded Systems conducted by i3 indya technologies.

EXTRA-CURRICULAR ACTIVITIES:

- BLOGGER AT: <http://www.programmingfundaaaz.blogspot.in/>
- Article writer WIKIHOW : How to choose a microcontroller for space missions.

REFERENCES:

- M.LOGANATHAN
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