**GAYATHRI JAYANTHI**

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# Hard-working, motivated, and productive computer science post-graduate with a pleasing attitude. I am seeking a challenging software engineer’s position in a platform that can employ my technical and inter-personal skills.

# TECHNICAL SKILLS

**Software Certification:** Java SE 7 certified programmer (**Oracle certification**), Scala Programming for Data Science (**IBM**)

**OS Platform**: Windows, Linux, MAC.

**Cloud Tools**: Google App Engine, Google Earth Engine, AWS EC2, Docker engine, Hadoop, Scala.

**Languages**: C and Data Structures, Java, HTML/CSS, JavaScript, JQuery, Datalog, PHP, Python.

**Applications**: Visual Studio, Eclipse, Microsoft Office, Cygwin, VMWare (Ubuntu).

# EDUCATION

Masters in Computer Science University of Cincinnati, OH, USA GPA: 3.5/4.0 [Dec 2016]

Bachelors in Information Technology Vardhaman Engg College, Hyderabad. India GPA: 3.7/4.0 [May 2015]

# EXPERIENCE

**Web developer -** Intern Desert Research Institute **(DRI),** Nevada, USA May’16 – Sep’16

* Developed a web-based climate-engine ([Nevada-ET mapper](http://v2.eartheng-demo.appspot.com/nevadaet)) for the Desert Research Institute (DRI), Nevada.
* I have linked GAE (front end) is linked to GEE (backend) to pull the map layers on the fly.
* Developed this portal using tools VMWare (Linux), Python, Java Script, J-Query and HTML/CSS
* Created Raster images and vector data and added it to the web page. Converted fusion tables into KML layers.
* Sub-basin-wise time series analysis and statistical metrics have been calculated and projected over the Google map (base layer) as output.

**Data Analyst** National Remote Sensing Centre **(NRSC)**, Dept. of Space, **ISRO**, INDIA Jan’15 - May‘15

* Created a large satellite dataset (header and imagery) that simulated high-speed digital data transmission from the CARTOSAT 2 remote sensing satellite.
* Using C, Created and ran the simulated data set (~ 25 GB in hexadecimal format) through hardware components on NRSC Workstation at NRSC lab, Hyderabad, India.
* Validated the entire simulated data transmission against known data patterns of historically available satellite data sets.

**Application Developer** Naresh I Technologies **(IT**), INDIA June’14 – Nov’14

* Developed a secure web application that stores the confidential data in a single application
* Used RSA algorithm to develop an encrypted application in Java (used tools are: Windows XP, JavaScript, HTML, and MySQL) for safe and secure processing of confidential and personal data, and their storage.
* All the objectives were achieved successfully and was also successfully tested by considering the test cases.

# ACADEMIC PROJECTS

**Curricula Information Portal** – Developed a web-based application using HTML/CSS, JavaScript for obtaining past curricula information of Bachelors (IT) course.

**Intrudect** (Intrusion detection) – Used HTML/CSS and Fluid UI to develop a web-based application (front-end) to alert the user of physical motion, captures images and relays back to the user in real-time.

**Number Checker** – Developed this web application in various tools like AWS, Docker, and GAE. With user’s input it checks if the number entered is prime or not, Armstrong or not, and also gives its factorial.

**Image Container with Docker** – A web service was hosted using Docker container. The server takes-in the text to be encoded from the user and returns the Image (text is embedded in it). The web service was created and kept in an image.

**User Tracker**– Developed a dynamic web application (Python script and Google app engine) which displays account login page. After logging-in the user can send their present address location to others via mail. Web services like Mem-cache, Users, URL services and Mail services of google cloud are used.

**Number Calculator** – Working on developing a mobile application on Android that takes in numbers as input and makes user specified operations and gives output on mobile screen.

**Data Analysis using** **Hadoop** – 100 GB of Twitter data is analyzed using Hadoop and statistical analysis like most mentioned hashtag, average tweet length, number of tweets per hour is calculated for particular user.

# TECHNICAL ACTIVITIES

* Presented paper titled “Data warehousing and analytics infrastructure at Facebook” for Cloud computing (Masters) course.
* Attended Workshop on iTouch Robotic Arm (Embedded C) at IIT, Hyd, India,
* Secured **3rd prize**, for my paper titled “Cyborg Technology” in Technolites – Technical Event conducted by Vardhaman Engg. College.
* Presented paper on “Wivi Technology” in IEEE Conference held at Gurunanak Institutions, Hyd, India.

# ACTIVITIES AND AWARDS

* Awarded **Graduate Incentive Scholarship** for academic meritat University of Cincinnati. 2015-16
* **Coordinator** forNSS program - “Tree plantation”in Vardhaman Engg. College, Hyd, India. 2014
* **Event Organizer** for “Papyron”, technical fest in Vardhaman Engg. College, Hyd, India. 2014
* Secured **3rd place**, in a contest titled “Sketch your thought” conducted by CETA, Hyd, India. 2013

# MEMBERSHIP OF PROFESSIONAL BODIES AND GROUPS

* SWE (Society of Women Engineers), ID# 1127399
* Google Earth Engine Developers (GEE Group)
* International Friends Association (UC Bridges International)