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| **VIDHULAKSHMI**  [**VIDHULAKSHMI.365759@2freemail.com**](mailto:VIDHULAKSHMI.365759@2freemail.com) |  |
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|  |  |
| **UAE** |  |



**Career Objective**

2.8 years software trainee with a strong educational background and experience, seeking a challenging position in the software field for growth with the organization. Skilled programming.



**Academic Credentials**

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| --- | --- | --- | --- | --- |
| **Course** | **Institution** | **Board/University** | **Year of** | **Percentage** |
|  |  |  | **passing** |  |
|  |  |  |  |  |
| MSc Computational | Indian Institute of | Cochin University | 2014 | 8.47 (CGPA) |
| Science | Information Technology | of Science and |  |  |
|  | and Management (IIITM) | Technology |  |  |
|  |  | (CUSAT) -Kerala |  |  |
|  |  |  |  |  |
| BSc Applied Physics | Kodungallore Kunjikkuttan | Calicut University | 2012 | 83 |
|  | Thampuran Memorial | - Kerala |  |  |
|  | College |  |  |  |
|  |  |  |  |  |
| Higher Secondary | Government Girls Higher | Kerala State Board | 2009 | 81 |
|  | Secondary School |  |  |  |
|  |  |  |  |  |
| SSLC | Little Flower Convent | Kerala State Board | 2007 | 91 |
|  | Girls High School |  |  |  |
|  |  |  |  |  |



**Technical Skills**

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| --- | --- | --- |
| Languages | : | C, C++, Core Java, MatLab, Python, Fortran |
| DBMS Package | : | MY SQL |
| Scripting Language | : | Shell Scripting,GrADS,NCL,Ferret. |
| Web Designing | : | HTML |
| Operating System | : | Linux, Windows |

**Work Experience**



1. Worked in IBM, Bangalore as Software Developer.

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| --- | --- | --- | --- |
|  | **Duration : 4 Months** (10/10/2016–31/01/2017) | |  |
|  | **Roles and Responsibilities:** | |  |
|  |  | Application Development using PL-SQL, C and C++.  |  |
|  |  |  |
|  |  | Familiar with VAX-VMS scripting and Sybase.  |  |
|  |  |  |
|  |  | Played role in Unit and Assembly testing.  |  |
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1. Worked as Project Assistant Level II in CSIR - National Aerospace Laboratories **(CSIR-NAL)** , Bangalore.

**Duration : 1 Year** (17/06/2015–10/06/2016)

**Roles and Responsibilities:**

* Development of Boundary Layer Module in Climate Forecast System Model (CFS version 2) for the National Monsoon Mission. 

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|  | Implementation of different Mathematical formulas using C , |  |
|  | C++ and Fortran programming.  |  |
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|  | Played with different formats of files like ASCII,Binary,Dat,etc., |  |
|  | through programming.  |  |
|  | Used Shell Script for connecting multiple programming as well as |  |
|  | multi tasking.  |  |
|  |  |
|  | Data visualization using NCAR Command Language (NCL) and |  |

GrADS. 

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3. Worked in CSIR - Fourth Paradigm Institute **(CSIR-4 PI)**, Bangalore as Project Trainee.

**Duration : 1 Year 4 Months** (01/01/2014 to 30/04/2015)

**Roles and Responsibilities:**

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|  | Mathematical modeling of Reservoir Hydro Power |
|  | generation and variation with climate change.  |

*  Implementing the model using C, C++ and Fortran. 
*  Accuracy verification with different data sets. 
*  Connecting programs through Shell Script for multi tasking.   Data visualization using Python and MATLAB. 



**Academic Projects**

1. **Modeling and Simulation of Reservoir Water Level and Hydro Power Generation**

**Description :** The thesis is a part of MSc degree program carried outin **CSIR Fourth Paradigm Institute**, Bangalore (Formerly CSIR Center for Mathematical Modeling andComputer Simulation), under the guidance of Dr. K. V. Ramesh, Senior Scientist in CSIR 4PI. The project is based on modeling of the hydro reservoirs which does not have any definite structure. This study extensively uses the features of Scientific Computing for developing the model and establishing the relationships between the various parameters of the reservoir with the impact of climate change. A mathematical model is developed which can predict the present state of the reservoir.

Technologies used : C, C++, Python,MATLAB, Shell script, Fortran

2. **Handy Tester**

**Description**: The project was carried out as a part of BSc degree in which the circuit of ahandy tester is designed and developed using electronic components (capacitor, transistors, resistors, LEDs and wires). This can be used to detect the polarity and quality of electronic components such as Capacitors, Resistors, Diodes and Transistors etc.

1. **Modeling and simulation of relationship between water discharge rate and instantaneous water level**

**Description:** The project includes the modelling and simulation of water level,velocity and flow rate of different shapes of reservoirs using **C** programming and

**MATLAB** –Carried out under the Council of Scientific & Industrial Research, 4thParadigm Institute Centre for Mathematical Modelling And Computer Simulation(CSIR 4 PI) NAL BELUR CAMPUS, BANGALORE.



**Achievements**

* + Presented paper titled "Effect of El-Nino on Southwest Monsoon 2015" at 10th SPIE-Asia Pacific Remote Sensing held at New Delhi on 4-7 April 2016. 
  + Participated in “ROBOCUP” and won 1st in that and selected to the next level in
* IIT-BOMBAY conducted by IIT-BOMBAY. 
  + Awarded with SPEED-IT Scholarship by Government of Kerala. 

**Training & Workshop**



* Attended Second World Conference on Information and Communication Technologies organized by IIITM-K, Techno Park, Trivandrum.
* Take part in the International Conference on Security in Computer Networks and Distributed Systems (SNDS-2012).
* National Workshop on Scientific Computing-2013 Organized By Indian Institute of Information Technology and Management Kerala, Trivandrum.
* Workshop on Computational Fluid Dynamics (CFD) taken by ESI group in July-2013, organized by IIITM-K, Techno Park, Trivandrum.
* National Workshop on Differential Equation Organized By Indian Institute of Information Technology and Management Kerala, Trivandrum.



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|  | **Personal Details** |  |
| Date of Birth | : | 8th November 1991 |
| Nationality | : | Indian |
| Current Location | : | Sharjah |
|  |  |  |
|  |  | 1 Month Visiting Visa**(Expires on** |
| Visa status | : | **10/05/17)** |
| Gender | : | Female |
| Marital Status | : | Unmarried |
| Hobbies | : | Listening to Music |
| Languages known | : | English, Malayalam and Hindi |
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|  | **Declaration** |  |

I hereby declare that the above information is true to the best of my knowledge

and belief.