

FREEZE FRANCIS

[LinkedIn](#)

Objective

Seeking a challenging career to enrich and apply my technical skills to further company growth.

Contact Information

e-mail: freezefrancis@gmail.com
Phone: +91-8951585778

[GitHub](#)
[Hackerrank](#)

Work Experience

CenturyLink Tech. Pvt. Ltd, Bangalore
Software Development Engineer

AUG,2014 - JUN,2015
Technology: JAVA/J2EE

- Developed web applications for generating sales order XML for easy testing.

Teaching Assistant at IIIT, Bangalore

JUL,2016 - AUG,2016

- Teaching assistantship for Java Programming course for Mtech,2016 Batch

Professional Skills

Languages: Core Java, C/C++, Python3, MATLAB, JavaEE, XML
Operating System: Ubuntu 14.04, Windows 7
ML libraries : Scikit-learn, GraphLab, Tensorflow, Caffe, Seaborn
Graphics API: OpenGL, GLUT
Frameworks: Struts 2.0, Hibernate
J2EE servers: Apache Tomcat, WebLogic
Source Control: CVS, Serena Dimensions, Git
Databases: Oracle, MySQL
Softwares: Eclipse IDE, Keil, SQL-Plus, Doxygen, Latex, Ipython Notebook.
Hardware: Atmega 8/16/32 Microcontroller, 8051.

Areas of Interest

Data Structures, Algorithms, Mathematics, Machine Learning, Computer Graphics, Competitive Programming.

Education

Course	Year Of Passing	Marks Obtained	Institute
M.Tech IT (CS)	2017	3.87/4	IIIT, Bangalore
B.Tech ECE	2014	8.73/10	NIT, Calicut
12 th CBSE	2010	95.4%	Devamatha CMI Public School
10 th CBSE	2008	96%	Devamatha CMI Public School

Projects Completed

Academic Projects

Estimation of High Resolution image from set of Low resolution images.

Team size: 4 **Language:** MATLAB

- Implemented algorithm for estimating shift parameters between images for image registration.
- Implemented POCS(Projection Onto Convex Sets) based image reconstruction method.
- Designed a simple UI.

Movie Recommender System

Team size: 1 **Language/Libraries:** Python/Scikit-learn **Source:** [MovieRecommender](#)

- Clustered movie based on genres and computed cluster average ratings per user.
- Computed user-user similarity using Pearson correlation coefficient.
- Predicted reviews per user based on top similar users.
- Mean Squared Error of 1.23 achieved on MovieLens 100K dataset.
- Attempted matrix factorization approach.

FPGA implementation of CORDIC algorithm(UG Major Project)

Team size: 4 **Language:** MATLAB/VHDL

- **C**ordinate **R**otation **D**igital **C**omputer: Efficient method of computing trigonometric values based on coordinate rotation involving simple shift add operations.
- Reduced the complex multiplications to simple shift and add operation.
- Developed a pipelined CORDIC core that computes trigonometric values efficiently.

Scene Graph Implementation

Team size: 1 **Language:** C/C++ **API:** OpenGL/GLUT **Source:** [SceneGraphs](#)

- Scene graph: Tree data structure storing the logical and spatial representation of scene.
- Implemented scene graph.
- Designed a animated scene adhering to MVC architecture.

Professional Projects:

Customer Order Document(COD) Generator (CenturyLink Tech.).

Team size: 3 **Language:** Java/J2EE,HTML/CSS/JSP, JavaScript **Server:** WebLogic

Framework: Struts 2.0,Hibernate

- An automated testing tool for generating sales order XMLs.
- Designed configurable UI for displaying relevant fields in template XMLs.
- Exploited the structure of sales order XML to support for different product.
- Extended functionalities to populate concerned DB tables to initiate a order provisioning workflow.

Certified Online Courses

- [Machine Learning: Clustering & Retrieval](#) by University of Washington, Coursera.
- [Machine Learning: Classification](#) by University of Washington, Coursera.
- [Text Retrieval and Search Engines](#) by University of Illinois at Urbana-Champaign, Coursera.

Achievements

- Part of the Dean's Merit List twice in first and second semesters Mtech, IIITB.
- Ranked 5th in [Tesco Codeathon](#) (Algorithms contest),2016 conducted on Hackerearth.
- Ranked 76th [Machine Learning Codesprint](#) and 44th in [Walmart ML Codesprint](#) on Hackerrank. (username : **CodeName777**)
- Active contest programmer in Hackerrank. (username : **CodeName777**)
- Qualified GATE ECE-2014 with AIR-567.
- Qualified NSEC – 2009(National Standard Exam in Chemistry) and appeared for INChO (Indian National Chemistry Olympiad), 2010.
- Qualified IIT-JEE,2010 with AIR-5308 and Kerala Entrance,2010 with Rank-72.
- School Topper in both 10th and 12th board exams.
- Amul Vidya Shree award for outstanding performance in 10th board exam.
- State Rank 66 in 7th National Cyber Olympiad,2007

Activities

- Conducted AVR micro-controller programming workshop as part of IEEE, NITC.
- Organized Electronics Stall for Tathva,2012 (Tech fest at NITC).

Declaration

I hereby declare that the above details are true to the best of my knowledge and belief.