Sachin Shetty

web: https://gaganyatri.com , github: sachinsshetty

Email: sachinsshetty(dot)de(at)gmail(dot)com

Professional Experience

- Currently studying Computer Science with focus on Robotics at University of Bonn, Germany
- **Research**
  - **Past :**
    - **May 2017 -May 2018 :** Worked as a Research Assistant at KLE Technological University, Hubballi
    - **Sep 2012-May 2013 :** Worked as Student Research Assistant at B.V. Bhoomaraddi College and Tech, Hubballi.

- **Software Industry**
  - **Past:**
    - **May 2018-Oct 2018**
      - worked as a Senior Software Engineer at EFI India for full-stack development
    - **Sep 2013- April 2017**
      - 3.8 years of industry experience in creating software for telecom in an agile environment, worked as System Analyst at Subex Ltd. Bangalore in ROCFMS Roadmap team

Research Project:

- Project : Object detection for driverless cars
  - Skills : Python, Opencv , Tensorflow, Java.
  - Designed and implemented a ML algorithm to detect wheelchair pedestrian from Video. "**Special Pedestrian and Head Pose Detection for Autonomous Vehicles**" Paper presented at ICSC 2018. Published at Springer in ICSC 2018 proceedings titled "Advances in Signal Processing and Communication" in Lecture Notes in Electrical Engineering Vol. 526 at the link : [ICSC2018](https://link.springer.com/book/10.1007/978-981-13-2553-3)

- Project : Indian Heritage in Digital Spaces
  - Skills: Python, Java, Redis.
  - Project sponsored by DST(Department of Science & Technology, India) to digitize heritage data (Temple, Ruins etc.) with 3D reconstruction and image classification. Ongoing project with my contribution involving development of transfer learning based model for classifying temple. Currently 27 locations in Karnataka, India have been mapped.
  - Paper sent for review at NCVPRIPG 2018 .

- Undergraduate Thesis: **Trace Transform Based Identifier for Speech Based Image Retrieval On Mobile Phones**, Published IEEE paper at 2013 International Conference on Advances in Computing, Communications and Informatics (ICACCI) .
  - https://ieeexplore.ieee.org/abstract/document/6637307/
- Conducted Machine Learning Lab for Undergraduates 2017-2018 . Resources created available at "https://github.com/sachinsshetty/ml_lab_ecsc_306"

Software Projects undertaken

- Games Developed

  - Haven GGJ19

    - Developed an adventure based game for Global Game Jam 2019. WindowPC version [download](https://globalgamejam.org/2019/games/haven-1)

    - [Android Playstore](https://play.google.com/store/apps/details?id=com.slabstech.game.haven&hl=en_US)

  - Dont Eat(Me)

    - Devloped a game during Game Dev Hackathon at Uni-Bonn. Android : https://play.google.com/store/apps/details?id=com.slabstech.game.donteatme

    - Browser : https://slabs.tech/tasty-assassin/

- Worked on Hive project for migrating daily report data from Oracle DB to Hive

  - Skills: Java , Hive , Oracle SQL.

  - Duration : Nov 2016- Apr 2017

- Additional Project: Integrated code profilers like Sonarqube to svn to reduce basic development errors

- FMS Mobile App : Worked on Hybrid mobile app development for Fraud Management application using Ionic Framework.

  - Skills: Ionic and Angular JS for frontend, Java webservice backend.

  - Duration : November 2015- October 2016

- Mobile Fraud: Worked on a telecom project which involves fraud detection using Mobile apps. Data is sent to app through GCM server and app sends processed request to a Gwt server

  - Skills : Java for native android app, Java webservice wrapper written on top of OpenPBX written on C++.

  - Duration : August 2015 - October -2015

- Seed-Schema DB Migrator/Installer : A migration tool for seamless update between versions. Porting Dbsetup of FM which was based on SQLs, to hibernate framework. Designed and developed features for handling versioning support.

  - Skills : Java, Hibernate , SQL , Oracle

  - Duration : November 2014- July 2015

- Infinispan DB Scaler: Member of team which integrated Infinispan DistributedCache Framework provided by JBOSS, Designed and implemented JPQL support for C++ server for Infinispan.

  - Skills : Java , Infinispan Cache , C++

  - Duration : Jun 2014 - October 2014

- ROR Client Bug Fixes - Initially worked on fixing bugs and adding UTs to ROR client.

  - Skills: Ruby On Rails. , Duration :Sep 2013 - Feb 2014

College Projects

- Physics Lab Manual: An android tablet application, developed for 1st year students of BVBCET, which automates record keeping of Physics Lab Experiments. The project running into its 7th year, has saved nearly 10 million journal sheets. App available at https://play.google.com/store/apps/details?id=com.slabstech.edu.ejournal

- TourBuddy: An android mobile application, which provides audio information about the history of the location and important places in the locality.

Personal Details

Languages known: English, Kannada, Hindi

Hobbies: Bibliophile, Chess, Amateur Blog Writer

Achievements & Activities

1. Curricular Achievements:
   - Secured 1st place at BITS Quark 2013 for "Physics Lab Manual" project at Open showcase competition.
   - Secured 1st prize in District level Science fair for demonstrating the wonders of Mathematical Formulas, Dharwad 2005-06.
   - Secured 2nd prize in District level Science fair for introducing Carbon Nanotubes as the precursor for next Industrial Revolution , Hubli 2006-07.
   - Awarded "Best Coder" for 2009-13 ISE branch at BVBCET.

2. Co-Curricular and other Activities
   - Conducted workshops on Android App Development at BLDEA, Bijapur and KLEIT, Belgaum through APPCENTRAL.
   - Part of Winning team of Subex football cup for 2015, Runner's up for Subex football cup for 2014. 2nd place in Subex Chess tourney for 2014.

Educational Qualifications

- Completed Engineering degree in Information Science and Engineering stream at BVBCET, Hubli with a CGPA OF 8.55
- Completed Pre-university education at Pc Jabin College, Hubli with 72.83%
- Completed Matriculation at St Mary's High School, Hubli with 88.48%

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

(Sachin Shetty)