

# Sachin Suresh Shetty

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## 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 Assitant 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. To be published at Springer in “Book Series Lecture Notes in Electrical Engineer”
- 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](https://github.com/sachinsshetty/ml_lab_ecsc_306)”

### Software Projects undertaken

- 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 1<sup>st</sup> year students of BVBCET, which automates record keeping of Physics Lab Experiments. The project running into its 7<sup>th</sup> 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 1<sup>st</sup> prize in District level Science fair for demonstrating the wonders of Mathematical Formulas, Dharwad 2005-06.
  - Secured 2<sup>nd</sup> 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. 2<sup>nd</sup> 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)