sankherpritesh@gmail.com
priteshsankhe.com
+91 7208497375

Pritesh Sankhe

Education

Indian Institute of Technology, Gandhinagar, India
2009 – 2013, CGPA – 8.19 (on a scale of 10)
B.Tech, Electrical Engineering with Minors in Computer Science

The D.G.Ruparel College, Mumbai, India
2006 – 2008, High School Percentage 91%

St. Dominic Savio High School, Mumbai, India
Secondary School Percentage 93%

Android Apps on Play Store

Skim – Flipboard for Adventures
Co-Creator, Android developer & Growth Hacker, Bangalore [Jan' 14 – Sept' 14]

Shortr – News, Blogs, Tutorials in Shorts but for Tech
Co-founder & CTO, Lumos Automation, Ahmedabad [Feb' 15 – present]

Open Source Contribution

CSN-Android. The Caltech Community Seismic Network Android Application
http://code.google.com/p/csn-android/

Work Experience

Lumos Automation – Switch to a Smart Home

Co-founder & CTO, Ahmedabad [Sept' 14 – Apr' 15]

- Built backend architecture and mobile app for Lumos smart electrical switches
- Developed ML algorithms based on decision trees for automating functioning of the switches adapting on user preferences, indoor and outdoor physical conditions.
- Technologies: NodeJS, MongoDB, Android, AWS, R, WEKA

Morgan Stanley Advantage Services

Strats Developer, Consultant, Mumbai [Apr' 14 – Nov' 14]

- Took complete ownership of the legacy system for fund admin operations and enhanced it in terms of scalability, user-experience and features
- Independently handled the full cycle of requirement analysis, design, develop and support
- Technologies: Java, SQL, Perl (legacy code)

Ricoh Innovations Pvt. Ltd.

Associate Engineer, Bangalore [June' 13 – Apr' 14]

- Research in Medical Imaging and Product Development
- Developed and Filed a Patent of Image Processing algorithms on medical images (MRI scans) of different modalities and implemented them to build a healthcare product
- Technologies: OpenCV, MATLAB, OCR engines, C, C++, Visual Studio, Linux

Internships

Caltech Community Seismic Network

California Institute of Technology, USA [May – July '2012]

- The Community Seismic Network (CSN) is a distributed sensor network that seeks to detect seismic activity and issue early warning alerts
- Developed a robust client on Android Platform that detects seismic activity and relays the data to a central server application built on Google App Engine
- Technologies: Android, Google API's, Sensors, Algorithms

Android Engineer

Biosense Technologies, Mumbai, India [May – July' 2011]

- Designed and Developed an Android Application that interfaces the medical sensor 'ToucHb' which is a non-invasive, portable anemia scanner
- Contributions to 'ToucHb' project recognized at TED Global 2012 by Myshkin
- Technologies: Android, UX design, Embedded Systems, Algorithms

Projects

A Robotic System with Smartphone Working as its Brain As An Assistive Technology (B.Tech Thesis)

Advisor: Dr. Uttama Lahiri [Jan – Sept' 2013]

- Developed a proof-of-concept of a smartphone based robotic system as an assistive technology that facilitates disabled people to navigate effectively
- This system which could take a form factor of a smartphone mounted electric wheelchair responds to the tactile and head movement input commands
- Technologies: Android, Embedded systems, OpenCV on Android

Classification of Physiological signals into cognitive emotional states using Machine Learning

Advisor: Dr. Uttama Lahiri [Aug' – Nov'2012]

- Project aims to evaluate affective states recognition in typically developing individuals and individuals with Austism Spectral Disorder (ASD)
- Developed a Machine Learning Model based on Support Vectors with over 80 percent recognition accuracy for typically developing individuals
- Technologies: MATLAB, R, Machine Learning

Library Books Recommendation System for students, IIT Gandhinagar

Advisor: Dr. Pawan Lingras [Jan – April'2012]

- Built a recommendation engine on MySQL based on the concept of collaborative filtering adopted by sites like Amazon
- Developed an Android Application 'bookOverflow' which syncs the library issues from the database server and serves as a reminder when they are due.
- Technologies: Android, MySQL, PHP, Google API's, R

Technical Skills

- Java
- Android
- C, C++
- MATLAB
- OpenCV
- Node.js
- Mongo
- HTML, CSS
- Machine Learning
- R

Teaching Experience

- Teaching Assistant for 'Computing Course' (ES 102) under Dr. Bireswar Das, IIT Gandhinagar [Aug – Nov'2011]
- Teaching Assistant for 'Data Structures Course' (ES 241) under Dr.Vinod Stokes, IIT Gandhinagar [Aug – Nov'2012]