

PRIYAL TRIVEDI
Full-Stack developer

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EDUCATION

Amity University

Bachelor of Technology in Computer Science and Engineering (GPA: 7.65/10.0)
Project: "Image compression using K-means clustering Algorithm"

Noida, India
[2011 - 2015]

WORK EXPERIENCE

[IdeaS Lab](#), Centre for product design and manufacturing, Indian Institute of Science

Bangalore, India
[July'15 – present]

Project 1: Life cycle assessment Tool (LCA)

Funding Agency: Boeing Research and Technology, USA
Role: Full stack Java developer, DB Administrator
Language: Core Java, AWT, Swing, Excel VBA, Processing
IDE: Eclipse, SQLite manager plugin
Database: SQLite database
Modelling tools: CATIA, 3DXml (For forming the CAD model of the product being considered)
Description: The tool developed using Java frameworks aims to capture the complexities of a globally distributed manufacturing network by representation of mapping space and time, which captures location, time and duration of the processes involved in the entire lifecycle of the product in varying levels of granularity.

Project 2: InDeaTe Tool (Indian Design Database and Template)

Funding Agency: Indo-US science and Technology Forum (IUSSTF)
Role: Responsible for Web application design, development and making technical decisions on future development of features
Language: Java, Python, Django, HTML, CSS, JavaScript, Angular JS, JQuery, MySQL, Adobe Photoshop, Balsamiq, Heroku
IDE: PyCharm Community edition
Database: MySQL database
Description: The software contains an exhaustive list of conventional design methods that are employed by a product designer during the various design stages of the product. It would provide attributes for the methods on the basis of selection of various filter parameters to ease the process of selection like design stages, TBL scope, Life-cycle phase etc. Software development using Java and SQLite database for standalone version
Web application development using Python and Django for the web version of the tool

Analytics and Innovation, Caterpillar India Pvt. Ltd.

Chennai, India
[Jan'15 - May'15]

Project: Telematics ODS (Operational Data Store)

Role: Software development using Advanced Java frameworks (mainly Spring and Hibernate)
Language: J2EE, Spring, Hibernate, XML, JUnits, JavaScript
IDE: Eclipse, Oracle SQL Manager
Description: As a part of the team, develop APIs using JavaScript for user interaction
Briefly involved in manual testing to write JUnits for the various modules in the application
Worked on Telematics ODS Project as a Java Developer which involved developing the general APIs that the customer or dealer associated to the vehicle would require to interact with to track the current status of the heavy machine. The novel telematics technology involved management of database of the real-time data stored in the Operational data store which is collected from a remote device by radio transmission at regular intervals.

Infizeal Technologies

Delhi, India
[May'14 - July'14]

Project: Location Tracking and audio buffering as an SOS Service

Role: Android application developer
Language: JAVA, Android SDK
IDE: Eclipse, Oracle SQL Manager
Description: Designed and developed an application as emergency application to help an individual in urgent situation by notifying the current location status to the list of people added as emergency contacts in the application

ACADEMIC PROJECTS

Online Shopping Cart

[July'13 - Aug'13]

Role: Web development using HTML, CSS, JavaScript
Description: A user friendly website with additional features like photo uploading and auto adjustment of apparel on the person to visualize the real impression of attire.

Blood Bank Management System

[July'12 - Aug'12]

Role: Software development using ASP.NET and MySQL database
Description: An interactive system that stores the data from a blood bank into the system and provides immediate access to the employees of the blood bank system.

TECHNICAL SKILLS

Basics:	Algorithm and data Structures, OOAD
Web Servers/ App servers	Apache Tomcat(6,7,8) , WebLogic
JEE Technologies	Swing, Spring, Hibernate
Programming languages	Java, Python, J2EE
Web Language and skills	HTML, CSS, JavaScript, jQuery, ajax, json, Bootstrap
Operating Systems	Windows and Linux(fedora, Ubuntu)
Database	Oracle Berkeley Db , MySQL, SQLite
IDE	Django, Eclipse, NetBeans, MyEclipse, SQL Developer, MySQL workbench, SQLite manager
Tools	GIT
Methodology	Waterfall, Agile methodology (Scrum or test driven Development).
Android Technology	SQLite api, telephony api, location api, fragments, activity , UI design, json parsing

CERTIFICATION

UPTEC, Lucknow

[May'13 - July'13]

Certification in Java Core and Advanced

PUBLICATIONS

Student Research Symposium at ICACCI 2013, Mysore [Jan'13 – Jun '13] "[Docaid: Predictive Healthcare Analytics Using Naïve Bayes Classification](#)" - Zeon Trevor Fernand, Priyank Trivedi, Abhinandan Patni and Priyal Trivedi

Published in ICACCI 2013 published in IEEE journal on Healthcare Analysis using Visual Analytics and Naïve Bayes Classification

A disease prediction system for predicting typhoid, malaria, jaundice, tuberculosis and gastroenteritis based on patient symptoms and complaints employing Naive Bayes Classifier algorithm and representation of the results achieved.

SCHOLARSHIPS

- Merit Scholarship from Ritnand Balved Education Foundation, Outstanding academic performance in the academic session (2013-2014)
- Merit Scholarship from Ritnand Balved Education Foundation, Outstanding academic performance in the academic session (2012-2013)

EXTRA – CURRICULAR ACTIVITIES

- Dance: Junior Diploma in Kathak classical dance, Passed with First Division from Prayag Sangeet Sadhna Samiti
- Debate: Participated in various debating competitions
- Part of the campaign "Vision 2020" to realize the dream of former late Indian President A.P.J. Abdul Kalam in Perna School, Kanpur, Uttar Pradesh. Mentor: Late S.V.G Menon, Founder of Samanvaya Foundation (www.samanvayafoundation.org)
- Organized the "Give Back Movement" which was an Initiative to collect the used newspapers, posters and magazines and send them to the recycle house.