

WORK EXPERIENCE

AUG 2011 - JUL 2015	Application Developer/Associate at JP Morgan Chase & Co., Mumbai, IN (<i>Investment Banking</i>) <ul style="list-style-type: none">•Developed feeds for backend processing required for trading different types of derivatives.•Earned 'Star of the Quarter' Award for high quality output and debugging skills.•Optimized 'Dividend Straight Through Processing' achieving 56% increase in Automated Processing.•Introduced multi-threading to a java feeds framework.
JAN 2016 - APR 2016	Teaching Assistant at IIIT Hyderabad for Data Structures Course

EDUCATION

JUNE 2017 (Expected)	M.Tech in CSE, International Institute of Information Technology, Hyderabad, CGPA: 9.56/10
JULY 2011	B.Tech in I.T., College of Engineering, Pune, CGPA: 8.19/10
2007	H.S.C at Dr. Zakir Hussain Jr. College, Parbhani, IN 90%
2005	S.S.C at Queens English School, Parbhani, IN 85.45%

PROJECTS

MONSOON '16	'Difflet - Difference Between' - Semester Project Web2py framework project to display point-by-point difference between two entities. Python back-end that extracts data from wikipedia pages. Demo link - bit.ly/Difflet House Price Prediction (Kaggle Contest) - Data Warehousing & Data Mining Regression problem that required use of ml/regression algorithms along with feature engineering. HTTP 1.1 Web Proxy - Advanced Computer Networks Web proxy that supports several http headers(RFC 1945 & 2616) along with major 'cache-control' policy.
SPRING '16	IoT(Internet of Things) Platform under Prof. Ramesh Loganathan Nodejs project. Team of 6. Built a distributed IoT Platform that would enable developer to deploy his IoT idea quickly. Modules developed - Data Listener, Sensor & Gateway Registry, Events Engine. Wikipedia Search Engine - Information Retrieval & Extraction Java project to parse & index 56 GB wikipedia dump. Query retrieval under 1sec using 3-level index. Product Search Relevance (Kaggle Contest) - Statistical Methods in Artificial Intelligence Python project, a contest by HomeDepot(US retailer for home products) to get the search relevance score for the queries users searched on the HomeDepot website. Feature engineering was the main task.
MONSOON '15	Concurrent Data Structure Implementation under Prof. Govindrajulu Concurrent Stack & Queue implementation with EliminationBackOff Strategy.
OTHER & SELF	<ul style="list-style-type: none">•OS : Pintos - implemented priority scheduling•OS: Implemented Shell in C with builtins, pipes, io-redirection and background job•IRE project - improving accuracy of Named Entity Recognition bit.ly/ire-ner•Machine Learning Classification projects like handwritten-digit recognition using k-nereast neighbours and multilayer neural network.•Word2Vec Study project•Intro to Design Thinking Project - Prototyping, User Persona, Data Gathering•Restaurant Finder DBMS WebApp with SMS feature.•Snakes&Ladders game in OpenGL. & Android App : college time table application

ACHIEVEMENTS AND AWARDS

- IIIT-H Dean Award for excelling in academics (Sem I and II)
- Oracle Certified Java Professional Programmer (Oracle ID: OC1428842)
- 3 times Java Dojo Winner in JP Morgan
- IIT K - MOOC - C Programming Course : Achieved 100% (Nov '14)
- 1st Prize in C Code Contest at Interdisciplinary School of Scientific Computing, Univ of Pune
- **Unsung Hero** badge from StackOverflow.com

LANGUAGES AND TECHNOLOGIES

- C/C++, Java, Python, Unix/Bash Scripting
- IDE: VIM(Master), Eclipse(Master), Intelli IdeaJ(Basic), PyCharm (Basic)
- Amazon EC2. nodejs, web2py, HTML5, CSS, JS, Android(Basic),
- Source Version Control: Git, SVN, IBM Clearcase
- DB: mysql, sybase

INTERESTS

- ProjectEuler(Challenging mathematical problems) 56 problem solved.
- Spend time on competitive coding sites - codeforces, spoj, topcoder (@mdtareque)
- Active contributor to StackOverflow.com (Top 6% overall) and Unix.Stackexchange.com(Top 4% overall)

LINKS

- My Developer Story : stackoverflow.com/story/mtk
- Stackoverflow profile : bit.ly/stackoverflow-mtk
- Difflet source : bit.ly/difflet-src
- Source for IoT Project, Difflet, Shell, IRE wikipedia search engine on github.com/mdtareque