Venkatesh Mantha

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EDUCATION

MS in Computer Science, UNIVERSITY OF FLORIDA
GPA: **3.83** • Expected: MAY 2018

BE(Hons) in Computer Science, BITS PILANI GOA
MAY 2015 • Goa, India

COURSEWORK

GRADUATE: Advanced Data Structures • Distributed Computing • Computer Networks • Internet Traffic Measurement • Cloud Computing and Storage • Analysis of Algorithms • Distributed Multimedia Systems • Programming Language Principles

HACKS/PROJECTS

DUKE UNIVERSITY, HACKDUKE
Launched 'Virtual Eye', an Android app for the visually impaired; which vocally describes the surroundings to the user by analyzing the image clicked through the app

UNIVERSITY OF MICHIGAN, MHACKS
Built 'Senticon', a Twitter sentiment analyzing tool that visualizes the results through emoticons

WASHINGTON UNIVERSITY, ARCHHACKS
Developed 'Dr.Voice', an app to monitoring one's mental health by analyzing speech patterns and taking decisive actions if necessary

MEDIA IQ DIGITAL, HACK IQ
Created a context-aware app using beacons to later display personalized ads to the users based on their shopping patterns

MEDIA IQ DIGITAL, HACK IQ 2.0
Designed and built the winning hack on 'Conversational ads'

COLORIT, UNIVERSITY OF FLORIDA(Ongoing)
An automatic B/W and grayscale image colorization tool using Deeplearning and CNN's

WEATHER MASTER, UNIVERSITY OF FLORIDA
Intelligent conversational bot for Facebook Messenger to fetch real-time weather updates

MUSICLI, UNIVERSITY OF FLORIDA
A bare-bones GUI music player in Python

SKILLS

Programming:
Java • C • AngularJS • Shell Scripting • NodeJS • Python • Javascript • HTML • CSS
Frameworks:
Android • Spring • MVC • Web Components • Apache Camel
Operating Systems/Distributions:
Windows • Linux • EC2 • Docker
Databases/Storage:
Amazon Redshift • PostgreSQL • AWS S3 • MySQL • Apache Cassandra • Hadoop • MapReduce
Api's:
Twitter • IBM Watson • Google Doubleclick • Twilio • API.AI • Microsoft Azure Cognitive APIs
Version/Source Control:
Github • Bitbucket

WORK EXPERIENCE

SOFTWARE ENGINEER • MEDIA IQ DIGITAL
JUL 2015 – JUL 2016 • BANGALORE, INDIA
- Written modules for processing and reporting the daily revenue data of the Avis and Budget group, the success of which led to the booting of a new enterprise offering 'Enterprise iQ'
- Built the REST API's for 'Enterprise iQ', which won 6 new contracts and hiked up the quarter's revenue by over 10%
- Designed, developed and tested 'Commander', an administrative platform for EiQ which increased the efficiency of the team by 50% by automating trivial tasks
- **Technologies:** Java, Spring, Angular JS, MVC Design pattern, SQL scripting, Amazon AWS, HTML, CSS, Ajax, Unit tests

SOFTWARE ENGINEER INTERN • MEDIA IQ DIGITAL
JAN 2015- JUN 2015 • BANGALORE, INDIA
- Owned the full product development lifecycle of 'Feedservice', an ETL service which is used by more than 8 products across 5 teams
- Built and tested 'Modelling platform', a tool to perform data modelling operations
- Implemented a centralized login system for all products using OAuth 2.0 and LDAP server
- **Technologies:** Apache Camel, Java, Amazon Redshift, Maven, Tomcat

ACADEMIC PROJECTS

UNIVERSITY OF FLORIDA • AUG 2016 – AUG 2017
- Simulated Fast Gossip-based Constructions of Large Scale Overlay topologies for P2P networks
- Implemented PagerRank algorithm on the public AWS WEX dataset to return the top 100 Wikipedia pages
- Written Java implementations for Huffman encoding/decoding using Priority queues
- Built a centralized chat application using RPC over TCP/IP with file transfer enabled
- Provided Java implementations for the algorithms FM sketch, Hyperloglog and VHLL and produced near-optimal outputs for real internet traffic
- Comprehensively benchmarked and evaluated the performance and scalability of Apache Cassandra for various workloads and read/writes

AWARDS/LEADERSHIP

2017   Invited to be a member of IEEE-HKN, a CS/ECE honor society owing to my GPA of 4.0 in the Fall'16 semester

2016   Member, Team Media iQ which received 'Best effective use of data' for our work on enterprise data infrastructure management solutions at Drum Digital Trading Awards 2016, USA

2014   Chief Student Coordinator, Dept. of Photography, BITS Pilani Goa. Managed a team of 60 students to document all the student-events on campus