Sheetal Shalini

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EDUCATION

National Institute of Technology Karnataka, Surathkal, India
- B.Tech in Computer Science and Engineering, Senior Year   Jul 2014 – May 2018
  - CGPA : 9.17/10, Rank : 10/110 (May 2017)

Narayana P.U. College, Bangalore, Karnataka, India
- Pre-University Education in PCMC - 98.8%   Jun 2012 – May 2014

Bishop Cotton Girls School, Bangalore, Karnataka, India
- High School Education - 97.4% (ICSE)   Jun 2002 – May 2012

ENTREPRENEUR EXPERIENCE

Co-Founder and Developer
- eManageHealth, Bangalore, India   May 2016 – Present
  - Technology Platform for the World of Healthcare.
  - Developing a complete and powerful end to end Software solution using MEAN and MERN architectures for Healthcare Providers to efficiently manage Patient Consultation and Clinic Management at affordable price.
  - Deployed on AWS.
  - Working on incorporating AI and ML techniques for diagnosis and automatic prescription generation.

RESEARCH EXPERIENCE

Indian Institute of Science Bangalore, India
- Summer Research Intern, Computer Science and Automation Department   May 2016 – Jul 2016
  - Natural Language Processing - A cognitive approach to Metaphor Detection
  - In an ongoing research programme called DIAMETERS, I aided in the development of a Cognitive Markup Language (CML) to solve various types of Natural Language Processing (NLP) tasks such as metaphor detection, sarcasm detection, irony detection, Anaphora Resolution and named entity recognition.
  - DFS Labelling of the Stanford parse tree for identifying chunks, along with its Concreteness-Abstractness measure was performed and evaluated.
  - Dependency tags for each sentence were generated and this helped in determining phrasal relationships.

Indian Institute of Technology Bombay, India
- Winter Research Intern, Computer Science Department   Dec 2015
  - Scilab Optimization Toolbox.
  - Developed optimization modules of fminimax and fgoalattain functions and tools for an open source numerical computation software, Scilab.

INDUSTRY EXPERIENCE

Microsoft India Development Center
- Summer Intern   May 2017 – Jul 2017
  - Azure Guest OS Deployment Team
  - Made a dashboard to keep track of the OS compliance status of all the virtual machines that Azure is deployed on.
  - Used internal frameworks to extract optimized data from the multitudes of data in the telemetry and present it to the deployment team, executives as well as the service owners.

TECHNICAL SKILLS

Languages (C,C++,Java,Python), **Android App Development** (Eclipse,Android Studio), **Web Development** (HTML,PHP,SQL,JS,Django,AJAX,NodeJS,AngularJS,MongoDB,ReactJS,ExpressJS), **OS** (Windows,Linux,xv6,Akaros,Tornado), **Tools** (Git,STL,Latex,Bitbucket,Scilab,Matlab)

PROJECTS UNDERTAKEN

- **Automated attendance and Cumulative Feedback system**   Jan 2017 – May 2017
  - Developed a system to digitalize the procedures of attendance and professor feedback.
  - Worked on technologies like OpenCV in python, Local Binary Pattern Histograms (LBPH) and Eigen Face recognizers, machine learning algorithms like feature extraction using SURF (Speeded up robust features), k-means clustering, Naive Bayes classification and k-fold cross validation.

- **Risk alert in accident prone areas**   Jul 2016 – Nov 2016
  - Developed a django application to dynamically track the locations of the users and employ machine learning techniques like Naive Bayes classification, genetic algorithm and fuzzy c-means clustering to predict the amount of risk involved based on their age, gender and expertise of driving and notify them of the same.

- **Lighte | Microsoft Code.fun.do Finalist**   Jan 2016 – Jul 2016
  - Developed an android application for visually impaired people.
  - Worked on technologies like Android Studio, Microsoft Azure, speech to text conversion, Google Maps integration and SMS API.

- **Dynamic load balancing**   Jan 2017 – May 2017
  - Developed a distributed and dynamic load balancing system using OpenMPI.
  - Implemented truthful payment mechanism to yield minimum overall expected response time.

- **Compiler Design**   Jan 2017 – May 2017
  - Designed the lexical, syntax, semantic and intermediate code generation phases of a C compiler using Lex and Yacc.

- **Bus Reservation System**   Jan 2017 – May 2017
  - Developed a bus reservation system using Django, MySQL and JS.
  - It is integrated with Google Maps API, to automatically select the nearest pickup and drop points of the passenger on the basis of the source and destination addresses entered by him.

- **Library Management System**   Aug 2016 – Nov 2016
  - Developed a library management system using MySQL, PHP, HTML and LAMP framework.
  - This system facilitates students and professors to view all the listed books and choose them beforehand as well as provides special access to admins.

ACHIEVEMENTS

- **National Finalist at Code.fun.do Microsoft Hackathon 2016**
- **Successfully completed Applied Computer Science with Android workshop**
- **IEEEXtreme Student Ambassador at NITK 2017**
- **Stood in the top 0.2% in the country with a rank of 3156 out of 14 lakh students in JEE Mains 2014**
- **Received "A. W. Gnanakan Prize" for excellence in English proficiency**
- **Received "Khaleel Prize" for Outstanding Performance in Mathematics**
- **Received Trophy by Edurite "In Recognition of Outstanding Performance in Academics 2012**

CAMPUS ACTIVITIES

IEEE (Executive member | Done Projects and organized technical events), **Web Enthusiast's Club** (Executive member | Coding enthusiast), **Computer Science Committee** (Executive member | Organized events in technical fest)

VOLUNTEER EXPERIENCE

- **Swatchha Pakhwada Programme, MHRD India**
  - Actively participated in a cleanliness drive which included cleaning the laboratories, offices and parking spaces in and around the department.

EXTRA CURRICULAR ACTIVITIES

Olympiads (Participated in Cyber, Math, Science Olympiads and secured good ranks), **Dance** (Won certificates and had active participation in dance competitions)

[*CV compiled on 2017-10-04*]