

INTERNSHIPS

- Student Intern** **Universitat Politècnica de Catalunya, Barcelona, Spain** **Feb 2016 – Jun 2016**
Bachelor's Project Thesis : "Graph algorithms for visualizing high dimensional data" under the guidance of Prof. Ricard Gavaldà and Prof. Marta Arias at Barcelona School of Informatics at LARCA; **Highest Score: 9.8/10**; Link: <http://hdl.handle.net/2117/88495>
- Selected the best suited community finding or graph clustering algorithm by balancing computational efficiency and quality of output from the literature.
 - Implemented in Python and evaluated empirically the chosen *Louvain algorithm* for Community Detection. Implementation was found to be *faster* (by nearly 5%) than the existing implementations.
 - Surveyed several graphical libraries and chose *Alchemy.js* (D3.js based graph drawing) to visually represent the communities found in the graph and use it to represent the output of the chosen *Louvain algorithm's* implementation.
 - Integrated the above in a web application that allows the user to select an input graph file, execute the algorithm and visualize the result in a smooth way. [*Web.py* as back-end framework and *bootstrap* as front-end framework]
- Exchange Student** **Tokyo City University, Tokyo, Japan** **Jul 2015**
- Only Student** from School of Computing, SASTRA University.
 - Designed an Algorithm to recognize edema(Swelling) of the brain using it's X-Ray CT Image.
- Visiting Summer Student** **The Institute of Mathematical Sciences (IMSc), Chennai, India** **Jun 2015**
- Top 20** students selected for the paid internship from across India.
 - Designed and developed a 2-OPT algorithmic solution for Harmonious coloring of graphs (an NP complete problem).
 - This led to a presentation of original ideas on "Chordal graphs and k-trees".
- Student Intern** **Indian institute of Information Technology Design and Manufacturing, Kanchepuram, India** **Jun 2014**
- Investigated deterministic and non-deterministic algorithms.
 - Combinatorial Implementation of graph algorithms and Knight Graphs using Java.

EDUCATION

- Gainesville, FL** **University of Florida** **Fall 2016 – May 2018**
- MS in Computer Science at Computer and Information Science and Engineering Department, Herbert Wertheim College of Engineering
 - Coursework: Analysis of Algorithms; Advanced Data Structures; Distributed Operating Systems; Formal Languages Computation; Programming Language Principles
- Thanjavur, India** **SASTRA University** **Fall 2012 – Jun 2016**
- B.Tech Computer Science and Engineering at School of Computing SASTRA University ; *CGPA: 8.35/10 ; First Class with Distinction*
 - Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture;

PUBLICATION

"Effective Management of Bus Transportation through Design of a Fuzzy Expert System", ARPN Journal of Engineering and Applied Sciences, vol. 10, no. 6, pp. 2392-2399, URL: http://www.arnjournals.com/jeas/research_papers/rp_2015/jeas_0415_1773.pdf **April 2015**

SKILLS

- Languages and Technologies** : C , C++, Java, Python, JavaScript, Latex, Matlab
- Technologies**: Web.py, D3.js, Alchemy.js **Media Technologies**: Photoshop, GIMP
- Version Control**: git
- Operating System**: Windows, Linux, Unix-Based

TECHNICAL EXPERIENCE

Selected Projects

- Disease Predictor-Preventive Health Care Application** (2016).To Visualizes and predicts the spread of disease in a country using D3.js maps
- FASTA Sequence Enumerator** (2016). Enumerating the FASTA Sequence of Amino Acids into separate files using C++
- GNOME Calculator-Open Source Project** (2014).Developed accurate and optimized code for calculator buttons and improved user interface
- Weed Removal Robot** (2014). IIT Bombay sponsored project; Identify and remove weeds(yellow stick for simulation purpose) in field.

HONORS AND AWARDS

- Achievement Award* Scholarship at University of Florida , August 2016
- Desh-Videsh* Scholarship applicant for pursuing internship in UPC Barcelona (outside India) in the final semester, June 2016
- Dean's Merit List* (Top 10%), SASTRA University, Fall 2012 till Jun 2016
- First Rank* in Linux Programming , School of Computing, SASTRA University, Fall 2013
- Best Project* in Computer Science (Class 12), P.S.Senior Secondary School, Mylapore, Chennai, India, 2012

ADDITIONAL LEADERSHIP EXPERIENCE

- Computing Cluster Head**, Daksh – University Technical Fest, Design and plan technical events in field of computing to cater to participating strength of more than 1000 students Jun 2015 to May 2016
- General Secretary at the Association of Computer Engineers**, Department of Computer Science, Managing student events and hosting the Data Structures and Algorithms session for Juniors, Jun 2014 to May 2015

EXTRA-CURRICULAR AND HANDS ON CODING EXPERIENCES

- Tech guru at ACM - University of Florida - Co-Host of the "git" workshop, August 2016.
- Participant in **Hackathon** for better driving (April 2016), **Graph-TA Conference** (March 2016), **HackUPC - MLH Hackathon** at UPC Barcelona (Feb 2016), **Mobile world Congress (MWC)** held at Barcelona(Feb 2016), Member of Sakura Science Club, Japan, July 2015.
- Participant Programmer **ACM ICPC** Online Programming Contest, International Conference for "**Data science and intelligence**" (Sept 2014)