Pranav Sharma

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Work Experience

Apache Allura (Powering SourceForge)

Open Source Contributor — *May '15–Current*
- Integrating Slack API.
- Worked with python2, TurboGear2 Framework, Solr, MongoDB 3.2, native Git and Mercurial code base.

Finomena — **Bangalore, India**

Software Developer Intern — *May '16 - July '16*
- Developed and scaled Backend of an information extracting platform.
- Designed and Normalized database structure of the application.
- Real-Time processing on large $O(10^8)$ dataset size with low query latency.
- Optimized the bottleneck queries and reduced performance time by almost 28%.
- Developed a matching Algorithm for Indian Names. Based on algo - Jaro - Wrinkler, Edit Distance. Task accuracy almost 98%.

Education

Academic

NIT Silchar — **Silchar, Assan**

Computer Science Engineering, GPA : 7.53/10 — *June 2013 – May 2017*

Vidhyashram Insternational School — **Jodhpur, Rajasthan**

CGPA: 10, (A) Physics (B) Maths — *2013*

CourseWork and Projects

- **Data Structures and Algorithms** - CodeForces, CodeChef, HackerRank. Username - direwolf7.
- **Computer Networks** - MAC protocol simulations; Standalone LAN Messenger.
- **Cloud Computing** - Deduplication Server File System.
- **Cryptography and Network Security** - Cryptography in Adversarial network using Neural Nets.
- **Numerical Algorithms** - Root finding methods, Memory Overflow Prevention algorithms in Python.

Independent CourseWork

- **cs224n Stanford NLP using Deep Learning** - Word2Vec, NER Tagger, RNNs using TensorFlow (without APIs).
- **18.06 MIT Linear Algebra** - Implemented SVD, PCA in Python.
- **Game Theory(Ongoing)** - Assignments, Ongoing - MiniMax, Nash Equilibria in Python.
- **Data Science Coursera** - Assignments.
- **Web Development Udacity** - Coursearcher : MOOC search engine.

Projects

- **Custom Grep** - C strings, Window Buffers, KMP Algorithm. 3.37 times faster than native grep in certain use cases.

Achievements

- Promoted in Project Management Committee, Apache Allura.
- ACM ICPC Chennai Regionals. Team rank - 54.
- Awarded Intern of the Week - Finomena.

Technical and Personal skills

- **Programming Languages:** Proficient in: C++, Python, LaTeX.
- **Tools:** TensorFlow, Octave, Numba, Git, UNIX.