

Chintak Sheth

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Objective

Seeking a summer internship from May - August 2017 in software engineering. Leverage strong algorithms and math fundamentals to solve real world problems by building intelligent, large scale applications.

Education

State University of New York - Stony Brook, USA | M.S. IN COMPUTER SCIENCE

Aug. 2016 - Exp. Dec. 2017

- GPA: 3.92/4.0
- Concentration: Software Engineering for Machine (Deep) Learning applications
- Courses: Machine Learning (513), Prob & Stats (544), Computer Vision (527), Parallel Programming (613), Computational Geometry (555), Artificial Intelligence (537), Compiler Design (504), Analysis of Algorithms (548)

BITS - Pilani University, India | B.E. (HONS.) ELECTRICAL AND ELECTRONICS ENGINEERING

Aug. 2010 - Jul. 2014

- GPA: 7.94/10.0
- Thesis title: Image Segmentation and Object Saliency
- Thesis Advisor: Prof. Venkatesh Babu, **Indian Institute of Sciences, Bangalore**

Skills

Programming C/C++ (4/5), Python (4/5), Cython (2/5), PHP (2/5), Javascript (2/5), Bash (1/5)

Scientific Software Tensorflow (4/5), Caffe (3/5), Keras (3/5), Theano (2/5), Scikit-learn (3/5), Numpy (4/5), Pandas (4/5).

Technologies AWS (EC2, S3, SQS) (4/5), MySQL (2/5), Redis (2/5), OpenCV (3/5), Docker (3/5), Flex (3/5), Bison (3/5).

Work Experience

Arya.ai, Mumbai, India | MACHINE LEARNING ENGINEER

Nov. 2015 - Jul. 2016

- Developed key solutions for two of our clients: document parser - **Société Générale** (French bank) and cheque processing - **Axis Bank** (Indian).
- Led the development of our deep learning library in TensorFlow and efficient data preprocessing in C++. <http://arya.ai/>

LensBricks Inc., Bangalore, India | SOFTWARE ENGINEER

Jul. 2014 - Oct. 2015

- Spearheaded the machine learning effort for curating interesting moments between parents and children in a home.
- Participated in Highway1, PCH Intl.'s hardware accelerator in SF; took charge of the entire dev process - conducting pilot studies and algorithm dev.
- Acquired by Flextronics; primarily for the algorithms developed for household interaction analysis.

Projects

- **E-- compiler - CSE 504 (Compiler Design)** | COURSE PROJECT Fall 2016
Built a compiler for a non-OO language using Flex, Bison and C++. Developed all phases - (individually) lexical analyser, parsing, abstract syntax tree construction, type checking; (in a group of 3) memory allocation and intermediate code generation.
- **Image Captioning - CSE 527 (Computer Vision)** | COURSE PROJECT Fall 2016
Coupled CNN and LSTM to create an end-to-end image caption generator. <https://github.com/chintak/image-captioning>
- **Policy Gradients for playing Pong - CSE 537 (Artificial Intelligence)** | COURSE PROJECT Fall 2016
Applied Policy Gradients method in Reinforcement Learning to play ATARI's Pong game.
- **Super Pixel Clustering via Kernel Density Estimation, IISc, Bangalore** | RESEARCH PROJECT Jan. - May 2014
Formulated a better technique based on kernel density estimation for image segmentation via super pixel clustering. Establishes a tighter bound on the color variance in the output segment. Published in ACM ICVGIP 2014.
- **Object Saliency using a Background Prior, IISc, Bangalore** | RESEARCH PROJECT Jan. - May 2014
Authored an algorithm for assigning uniform object-wide saliency values instead of assigning saliency proportional to the contrast, as prevalent in the literature. Published in ICASSP 2016.

Leadership Roles

Centre for Technical Education, BITS Pilani | CO-FOUNDER & STUDENT CO-ORDINATOR

Nov. 2012 - Jun. 2013

- Spearheaded the initiative to conduct various beyond-the-scope courses on various application areas - computer vision, C# - for a nominal fee.
- Negotiated terms with our campus Director and Head of CS Dept., and recruited students for teaching and co-managing the initiative.
- Generated ₹120k in revenue. Organized various hackathons and funded several student technical projects on campus.

QUARK - National Technical Festival, BITS - Pilani | ROBOTICS PANEL CO-ORDINATOR

Dec. 2012 - Feb. 2013

- Conceptualized, budgeted and organized 4 robotics challenges by successfully leading a team of 18 people.