☐ (+1) 631-913-5562 | ☑ csheth@cs.stonybrook.edu | ☑ chintak | Ⅲ chintaksheth

Objective.

Seeking a full time software engineering role, preferably involving machine learning, starting Jan 2018. 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: Analysis of Algorithms (548), Parallel Programming (613), Machine Learning (513), Prob & Stats (544), Computer Vision (527), Computational Geometry (555), Artificial Intelligence (537), Compiler Design (504)

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 4+ years: C/C++, Python, MATLAB; 2 years: Cython, PHP, Javascript

Scientific Software 2+ years: Tensorflow, Caffe, Keras, Scikit-learn; 4 years: NumPy, SciPy, Pandas, OpenCV; 1 year: Theano, Scikit-learn.

Technologies 2+ years: MySQL, Redis, AWS (EC2, S3, SQS); 1 year: Docker, jQuery, Flex, Bison.

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).
- Helped improve cheque clearing efficiency of Axis Bank by 35% by automatically detecting account numbers, cheque amount and verifying signatures.
- Used C++ for weightlifting heavy computational workload and Python for providing an easily integrable interface.
- · 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.
- In-charge of the bi-weekly sprint cycles; co-ordinated efforts among the software team, product/hardware team and the UI/UX team.
- Aquired by Flextronics in 2016; 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.

Jan. - May 2014

• Super Pixel Clustering via Kernel Density Estimation, IISc, Bangalore | RESEARCH PROJECT 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. http://doi.acm.org/10.1145/2683483.2683557

• Object Saliency using a Background Prior, IISc, Bangalore | Research Project

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. http://dx.doi.org/10.1109/ICASSP.2016.7472013

Extracurricular Activities

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. Total of 92 teams participated from 35 colleges across the country.