

Chintak Sheth

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Objective

Seeking a full time software engineering role at the intersection of machine learning and large scale systems. Leverage strong algorithms and math fundamentals to solve real world problems.

Education

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

Aug. 2016 - Exp. Dec. 2017

- GPA: 3.97/4.0
- Concentration: Large scale machine learning systems
- Courses: Analysis of Algorithms (548), Parallel Programming (613), Compiler Design (504), Machine Learning (513 - Top 3/100), Prob & Stats (544), Artificial Intelligence (537), Computational Geometry (555)

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

Aug. 2010 - Jul. 2014

- GPA: 7.94/10.0
- Thesis Advisor: Prof. Venkatesh Babu, **Indian Institute of Sciences, Bangalore**

Skills

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

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

Work Experience

Facebook Inc., Menlo Park, USA | SOFTWARE ENGINEER INTERN

Jun. 2017 - Aug. 2017

- Worked on the Tupperware scheduler team - Fb's internal containerized deployment solution.
- Improved the monitoring ability of the deployed jobs for our users, almost all of Facebook by revamping the UI and redesigning the alert manager.
- Participated in the design of the alert manager by interacting with various teams, understanding their core requirements and implementing a small set of alerts for supporting the requirements. Additionally, per user request prototyped a solution to easily expose the internal metrics to our users.
- Technologies used - PHP/Hack, C++14.

Arya.ai, Mumbai, India | SOFTWARE ENGINEER

Nov. 2015 - Jul. 2016

- Developed key solutions for two of our clients: document parser - **Societe Generale** (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.

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.
- Acquired by Flextronics in 2016; primarily for the algorithms developed for household interaction analysis.
- Technologies used - C++, Python, HTML, PHP, Javascript.

Projects

YouTube-8M Video Understanding Challenge | KAGGLE COMPETITION

Spring 2017

Team SBU. Ranked 152/656 teams in the Kaggle competition hosted by Google. Our solution was based on Mixture of Experts model with video level features generated via Eigen pooling on frame level features.

E-- compiler - CSE 504 (Compiler Design) | COURSE PROJECT

Fall 2016

Built a compiler for a non-OO language in C++. Developed all phases - lexical analyser, parsing, abstract syntax tree construction, type checking, memory allocation and intermediate code generation and minor optimisation (register allocation using live variable analysis).

Policy Gradients for playing Pong - CSE 537 (Artificial Intelligence) | COURSE PROJECT

Fall 2016

Used 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 ICVGIP 2014. <http://doi.acm.org/10.1145/2683483.2683557>.

Object Saliency using a Background Prior, IISc, Bangalore | RESEARCH PROJECT

Jan. - May 2014

Developed an algorithm for assigning uniform object-wide saliency values instead of assigning saliency proportional to the contrast, as prevalent in existing literature. Published in ICASSP 2016. <http://dx.doi.org/10.1109/ICASSP.2016.7472013>

Image inpainting, scikit-image | SUMMER PROJECT

June - Aug. 2013

Selected for **Google Summer of Code 2013**. Implemented 3 image inpainting algorithms in Cython and Python using NumPy, SciPy and Matplotlib.

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.