Aditya Bist

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EDUCATION

CARNEGIE MELLON

BS in Electrical and Computer Engineering and Computer Science

Expected May 2016 | Pittsburgh, PA
ECE (Carnegie Institute of Technology)
CS (School of Computer Science)

NEERJA MODI SCHOOL

Grad. May 2012| Jaipur, India

LINKS

Github:// **abist**
LinkedIn:// **adityabist**
Quora:// **Aditya-Bist**

COURSEWORK

ECE

Microelectronic Circuits
Logic Design and Verification
Computer Systems
Embedded Systems Engineering
Signals and Systems
Game Theory
Probability Theory

CS

Functional Programming
Software Systems Construction
Speech Processing
Data Structures and Algorithms
Lambda Calculus
Parallel Computer Architecture and Programming
Great Ideas in Theoretical CS

SKILLS

PROGRAMMING

Proficient:
Java • Python • SML • C++
Assembly • C • HTML, CSS
CUDA • System Verilog
Familiar:
Ruby • Android • JavaScript • Matlab

EXPERIENCE

CLEARSLIDE | Software Engineering Intern

May 2015 – Aug 2015 | San Francisco, CA
- Worked on the Mobile team to release the ClearSlide Mail Android app.
- Started and shipped a project implementing an NLP service for the company's main web app in 2 weeks as a part of an "engineering dash". Won the "Best Feature" award.

BETTER FINANCE | Software Engineering Intern

May 2014 – Aug 2014 | San Francisco, CA
- Worked on the company's main product, developing a web application on Rails
- Did full stack development, including both front-end and back-end.
- Wrote production code, wrote specs and ensured Continuous Integration
- Successsfully launched product, acquiring deals from T-Mobile and MetroPCS

CARNEGIE MELLON UNIVERSITY | Grader and Tutor

Jan 2013 – May 2013 | Pittsburgh, PA
- Graded homeworks, assignments and exams for Physics for Engineers class
- Also held extra tutoring sessions on weekends to help students

PROJECTS

INVIDEO SEARCH | 3rd, Greylock Hackfest 2015

Hacked a web-application in a day which allows any user to search for a particular scene by describing it in words using convulutional neural network trained models for image recognition and semantic similarity algorithms for searching.
Link : www.challengepost.com/software/invideosearch

SCAN MY CODE | 2nd, Capital One Software Eng. Summit 2014

Made an Android app to take a picture of any piece of hand-written code via a smartphone and compile it real time on the phone using handwriting recognition.

PARALLEL SEAM CARVING

Ported a content-aware resizing alogrithm (Seam Carving) to run on a GPU in parallel and made other optimizations in the algorithm to achieve a 25x speedup on the original algorithm.
Link : adityabist.com/Parallel-Seam-Carving

MULTITHREADED PROXY SERVER

Wrote a multithreaded proxy that caches web objects. The proxy accepts a request, forwards the request to the server, and returns the result back to the browser. Implemented using socket programming in C.

DYNAMIC MEMORY ALLOCATOR

Wrote a dynamic memory allocator in C, imitating the "malloc" command using free explicit linked list design and best fit and next fit algorithms.