Aditya Bist

http://adityabist.com
abist@andrew.cmu.edu | 412.478.9045

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
Electronic Devices and Analog Circuits
Structure and Design of Digital Systems
Introduction to Computer Systems
Embedded Systems Engineering
Game Theory
Probability Theory

CS
Imperative Computation
Functional Programming
Software Systems Construction
Speech Processing
Data Structures and Algorithms
Lambda Calculus
Parallel Computer Architecture and Programming

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
- Working on the Mobile team for the Android app yet to be released

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 : www.contrib.andrew.cmu.edu/ abist/seamcarving.html

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.