Shiwani Bisht

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Education

Cornell University, Ithaca, NY
Bachelors of Science (summa cum laude), College of Engineering, May 2016
Major: Computer Science
GPA: 4.05/4.00
Selected Coursework: Data Structures and Functional Programming, Operating Systems, Practicum in Operating Systems, Intro to Database Systems, Intro to Analysis of Algorithms, Embedded Systems, Machine Learning, Intro to Computer Vision

East Lansing High School, East Lansing, MI
High School Diploma (summa cum laude), May 2012
GPA: 4.07/4.00 Weighted, 4.00/4.00 Unweighted

Relevant Experience

Microsoft (Bing Ads Campaign Platform Development) Bellevue, WA   July 2016 – Present
Software Development Engineer
- Involved in the design and implementation of a Bing Ads service that changes a variety of advertisement settings given advertiser restrictions across multiple accounts using C#. The service is hosted in an Azure Web App using Azure Functions, Storage Queues, and Table Storage.
- Responsible for supporting and maintaining a tool that grants developers and support teams permission to production databases. Enhanced the tool to give access to geo-replicated secondary databases, expire permissions for audit purposes, and parallelize access requests to multiple databases.

Birchbox, Inc New York City, NY   June 2015 – August 2015
Software Engineering Intern
- Worked on a cross-team project to increase visibility of promotions available with select purchases on the Birchbox website.
- Created API endpoints using Ruby on Rails that returned promotions for a customer based on their current shopping cart.
- Prototyped a product carousel to surface promotion information to customers using Javascript, PHP, Handlebars, and jQuery.

Cornell University Computer Science Department Ithaca, NY   January 2013 – September 2013, January 2014 – May 2015
Consultant, Lead Instructor
- Provided programming guidance for students taking CS 2110 – Object-Oriented Programming and Data Structures, CS 1110 - Introduction to Computing Using Python, and CS 1133 - Transition to Python.
- Held weekly office hours to answer questions regarding concepts discussed in class and specific issues in students' own work. Led a CS 1133 lab section as a Lead Instructor.
- Graded student assignments biweekly and graded exams monthly.

Michigan State University Department of Computer Science and Engineering East Lansing, MI   May 2013 – August 2013
Summer Intern in the Pattern Recognition and Image Processing (PRIP) Lab
- Worked in the lab of Dr. Anil K. Jain using Amazon Mechanical Turk to establish a baseline for human accuracy on face verification tasks for commonly used computer vision image and video databases.
- Designed task interface using HTML and JavaScript.
- Collected, prepared and presented observed data weekly using Python and R. Co-wrote paper on research findings.

Publications

L. Best-Rowden, S. Bisht, J. Klontz and A. K. Jain, "Unconstrained Face Recognition: Establishing Baseline Human Performance via Crowdsourcing", *IJCB*, Clearwater, Florida, USA, Sept. 29-Oct. 2, 2014.

Other Activities/Information

- Comprehensive knowledge of Python, Java, C#, SQL, Git, and MS Office Suite. Familiar with C, Ruby on Rails, R, Linux, JavaScript, and HTML. Fluent in Hindi and proficient in French.
- Previous Undergraduate Researcher in the Microarchitecture Multicore Multiprocessing research group at Cornell University. Conducted research on Solid State Drives using the open source Jasmine and Cosmos SSD Platforms. Focused on improving read and write latency by using a genetic learning algorithm added to the device firmware programmed in C to decide when to issue garbage collection.
- Previous Member of Tarana, a South Asian A Cappella group at Cornell University. Musical Director from 2014-2015.
- Previous Co-Chair of Students Against the Sexual Solicitation of Youth (SASSY) at Cornell University.