GAGAN SINGH

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Sociable Computer Scientist from the University at Buffalo who is experienced in various programming languages, having developed many applications for both school and personal projects. Notable for not only his skills in various technologies, but also in being perceptive in its usability for the end-user. Is design minded, and pays close attention to detail. Doesn't believe in "good enough" and is focused on continuous improvement.

NIAGARA UNIVERSITY — BACHELOR OF SCIENCE — COMPUTER AND INFORMATION SCIENCES, TRANSFERRED OUT IN 2010
UNIVERSITY AT BUFFALO — BACHELOR OF SCIENCE — COMPUTER SCIENCE, MAY 2013

FAVORITE CLASSES
Image Processing // Operating Systems // Distributed Systems // Data Structures // Intro to Algorithms
Software Engineering // Computer Organization

FAVORITE ASSIGNMENTS

SIMPLE GNUTELLA	› Distributive file search/sharing protocol (Java)
EDGE DETECTION	› Edge detection via various fusions of wavelet transform subbands (MATLAB)
REGION MERGING SEGMENTATION	› Region merging via boundary melting (MATLAB)
DISTRIBUTED EVENT COORDINATION	› A system which consists of a DEC server which can interact and communicate with multiple DEC clients at the same time. (C++)
VIRTUAL MEMORY MANAGER	› A simple virtual memory manager. It takes a sequence of page references & the number of available frames as input. It then performs the placement of these pages to the available frames using the page replacement policy specified by the user. (C++)
MULTI-THREADED WEB SERVER	› A simple web server which binds to a given port on the given address and waits for incoming HTTP/1.0 requests (C++)

OS
Proficient with Mac OS, Windows, & Linux. Very comfortable with the command line/terminal

LANGUAGES
(IN ORDER OF FAMILIARITY)
Objective-C, C++, Java, C, MATLAB, Python, PHP (and other web tools) // have been exposed to many languages but these are the ones I have extensive experience with

GRAPHIC DESIGN
Photoshop, Illustrator, InDesign, Flash, Some 3D experience in Maya

AUDIO/VISUAL
Adobe Premiere, After Effects, Final Cut Pro, Sony Vegas, Reason, Logic Pro, Ableton Live

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UBTV
2013: Director
2012: Assistant Director
2011: Editing Manager
2010: Volunteer

- Managed and directed a team of 12 (6 staff, 5 interns, 1 volunteer)
- Responsible for keeping the UB student community (28,860) informed and entertained via an on-campus television station channel, in addition to a youtube channel.
- Responsible for a $3,500 annual budget, along with over $20,000 worth of media equipment
- Directed and produced the live video for the university's bi-annual music festival, which brings an average attendance of 10,000
- Oversaw the production of over a dozen original programs and specials
- Introduced an organizational system which increased productivity & communication, resulting in over double the output (compared to previous years)
- Held weekly 'Tuesday Tutorials' where advanced topics in video and audio editing were discussed, with some attendees noting they had learned more than they ever did in their media classes

UB NEUROSURGERY
summer, 2010: I.T. Intern

- Full time summer internship in a demanding, fast-paced environment, where customer (neurosurgeons) time was extremely limited
- Hands on administration with Windows Server Systems
- Heavily involved in the upgrade of various organizational systems, including the remedy system & hardware tracking & management system
- Provided support for the MedEnt Electronic Medical Records system, Windows OS, as well as iPhone & Blackberry smart phones

GENERAL MILLS
summer, 2009: I.T. Intern

- Was assigned to complete one major project, in addition to regular help desk support at this full time summer internship based at the Buffalo plant.
- After researching various work-flows within the plant, found a bottleneck in the way pallet orders were carried out
- Converted two inefficient order form systems into complete electronic systems, using InfoPath, VB.net, and SharePoint
- Following a media-heavy presentation on the product, which was given to the plant's manager and department heads, instituted a plant-wide change to convert the paper-form system into the new electronic system.

OTHER WORK
2010: Help Desk Asst. @ Univ. at Buffalo // 2009: Help Desk Asst. @ Niagara Univ. // 2009: Web Team Intern @ Artvoice

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PERSONAL

- Currently developing an animation, graphics, and audio rich iPhone app/game which allows users to turn their twitter feed into a visually stimulating guessing game. Also features online leaderboards created from scratch in PHP
- Developed a Stock Calculator app for the Android market, which has a 4.83/5 rating and 340 paid installs
- Developed a BPM app for the Android market, which has a 4.07/5 rating and 6,607 installs
- 1st place in the Niagara University commercial challenge
- 1st place in the 2012 UB Film Festival, with a music video
- Pursuing a passion for music, created a musical persona and released various songs and music videos, gathering a few hundred fans, along with a radio interview and blog coverage, ranging from the local 'buffalo.com' to a musical blog in the UK