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citizenship status: US Citizen

PROFILE

- Computer Scientist undergraduate with 2 years professional experience, as well as 2 years research experience.
 - Primary field of research is new user interfaces and its application to music and the arts.
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EDUCATION:

University of Illinois Urbana-Champaign, IL
Bachelor of Science, Expected May 2011
Major: Computer Science
GPA: 3.56 Technical GPA: 3.62

Elmhurst College, August 2007 - Spring 2008 Elmhurst, IL
Major: Physics
GPA: 4.00

WORK EXPERIENCE:

Hulu LLC
Mobile Developer Intern June 2010 - Current
- Developed Hulu Plus for mobile devices.
- Learned quick and innovative development strategies
- Currently working part-time remotely on similar projects.

Netmath At UIUC Urbana, IL
Web Developer February 2009 - April 2010
- Worked with PHP and Drupal, as well as Python.
- Wrote scripts in Python to convert old quiz system to new ones.
- Help administer a linux server

INHS Department At UIUC Urbana, IL
Web Developer April 2009 - Current
- Worked with PHP and Drupal, creating several highly customized sites.
- Utilizing Google Maps and their API to create new ways to interact with and explore collection data

Technograph Magazine Champaign, IL
Content Editor/Photographer Fall 2009 - Current
- Designed a computer-themed layout that is still currently being used.

RESEARCH EXPERIENCE:

Senior Thesis September 2010 - Current
- Ongoing research in multi-touch musical instruments.
- Studying the use of continuous gestures, and instrument training using AI techniques.
- Working with Guy Garnett and Roy Campbell.

Tacchi Project
Project Head September 2009 - Current
- In Fall 2009, UIUC and ACM gave SIGMusic funding to build a new MT table
- Constructed a 46" multi-touch screen embedded in a table, using optical cameras and infrared lasers.
- Result of over a year of independent research on multi-touch technology.
- Tacchi Table won the Undergraduate Student Research award and Lockheed Martin Computer Science award at Engineering Open House 2010
- Tacchi Table won the the Judges Award in CHPC 2010
- code.google.com/p/tacchi
- Table provides a platform for software development on this new interface
- Will enter Engineering Open House 2011 with music software for Tacchi

RESEARCH INTERESTS

- Primary research interest is new user interfaces.
- Interested in computational photography.

LEADERSHIP/ACTIVITIES

- Treasurer of SIGMusic at UIUC (part of ACM) September 2009 - Current
- Leader of SIGMusic's Tacchi Project, see above.
 - Expected to become president of SIGMusic in Spring 2011
- Ubuntu Chicago Usergroup April 2006 - September 2008
- Founding member in 2006
 - Organized and held meetings regularly through 2008
 - Volunteered 5/6 hours a week to assist new users with issues involving the Ubuntu
 - Requires an in depth understanding of the nature of operating systems

HONORS

- Lockheed Martin ACM Scholarship: 2010
Yahoo Hack-fest Judges Choice Award: 2009
Elmhurst College Presidential Scholarship Award: 2008
Elmhurst College Honor Society: 2008

MEMBERSHIPS

- ACM at UIUC September 2009 - Current
- Member
- Frequent participator and volunteer in ACM related events.
 - Participant in ACM's Exec Board

PRESENTATIONS

- Gave presentation on Tacchi for ACM's Student Lecture Series, October 2010.

References:

Paul Tinerella

- Insect Systematist & Entomology Collections Manager
- 1816 S. Oak Street
- Champaign, Illinois 61820
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- Fax: (217) 333-4949
- ptinerll@illinois.edu

Zach Holt

- Lead Software Developer at Hulu
- 12312 W. Olympic Blvd
- Los Angeles CA
- Phone: (714) 348-5101

Debra Woods

- NetMath Project Director at University of Illinois:
- 1409 West Green Street
- Urbana, IL 61801
- Office: (217) 265-0439 or 1-800-252-1360, ext. 50439
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