

Morgan L. Hargrove

EDUCATION

Louisiana State University, Baton Rouge, LA
Bachelor of Science (B.S.) in Computer Science
Concentration: Software Engineering
Minors: Music, Digital Media
Cumulative GPA: 3.67

May 2015

TECHNICAL SKILLS

Programming Languages*: Java, Python, JavaScript, Objective-C, C++

Operating Systems*: OS X, Linux, Windows

Specialized Coursework: Competitive Programming, Interface Design & Technology, Interactive Computer Graphics, CSC Honors Research & Thesis

*ranked by descending level of experience

EXPERIENCE

Tangible Visualization Laboratory

Fall 2011 – Present

Louisiana State University, Center for Computation & Technology

Undergraduate Research Assistant to Dr. Brygg Ullmer

Human-computer interaction, digital media, computational biology, and interactive surfaces

- Manage and work with distributed collaborative groups to solve complex problems
- Design tools to interactively gather information about regions of interest from large datasets
- Develop interfaces and interaction devices to support operations common to diverse applications
- Realize interactive histograms designed to assist interdisciplinary understanding of subject matter

Team for Research in Ubiquitous Secure Technology (TRUST)

Summer 2013

University of California, Berkeley / Lawrence Berkeley National Laboratory

Research Experience for Undergraduates (REU) mentored by Dan Gunter and Dr. Anubhav Jain

Interface design, scientific workflow management systems, materials science, and web development

- Developed a web-based dashboard for FireWorks, a scientific workflow management system
- Produced interactive visualizations of big-data sets for the Materials Project

Interdisciplinary Research Experience in Computational Sciences

Summer 2012

Louisiana State University, Center for Computation & Technology

Research Experience for Undergraduates (REU) mentored by Dr. Jesse Allison

Experimental music and digital media, mobile music, and cultural computing

- Designed and implemented applications for real-time digital audio synthesis on mobile devices

AFFILIATIONS AND ACTIVITIES

- Association for Computing Machinery (ACM): member (2011-present), President (2013-2014), Treasurer (2014-present)
- ACM International Collegiate Programming Contest: regional participant (2012-2014), 2nd place team in state (2013), 1st place team in state (2014)
- ACM SIGGRAPH 2014 conference, student volunteer (2014)
- Summer Study Abroad in Ireland (2014)
- Deloitte Invitational Programming Contest (Hattiesburg, MS): 1st place team (2013), 2nd place team (2014)
- Society of Peer Mentors, member (2013-present)

AWARDS AND HONORS

- Louisiana Science, Technology, Engineering, and Mathematics (LA-STEM) Research Scholar (2011-present)
- LSU Science Honors Scholar (2011-present)
- LSU Alumni Global Leaders Award (2014)
- Chevron Computer Science Scholarship (2014)