Nicolas Dedual

Research Assistant at Columbia University

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Summary

Software Engineer, Research Scientist and Entrepreneur with experience in computer graphics, mobile device development, signal and image processing.

Aside from my scientific and engineering endeavors, I also have experience with media production and creating content for different platforms.

Specialties

Augmented reality, HCI, mobile device development, alternate user interfaces, film editing and screenwriting

Experience

Graduate Technical Intern at Intel Corporation

June 2010 - Present (5 months)

Developing mobile device applications for internal use, currently focusing on iOS devices. Assisting in the deployment of context-aware services and in charge of a creating a proof-of-concept system that incorporates these services utilizing the MeeGo platform.

Research Assistant at Columbia University

January 2010 - Present (10 months)

Working on Augmented Reality and Human Computer Interaction research. Specifically, investigating new methods and techniques that can assist and enhance user collaboration both in a physical and also in a virtual location.

Graduate Intern Technical at Intel Corporation

May 2009 - August 2009 (4 months)

Collaborated in the redesign of the Intel Sales System by performing usability tests to ensure that it conforms to usability standards. Designed OpenThoughts, a prototype that seeks to incorporate data that maps relationships among files in order to elicit a memory response from users. Assisted the Visual Analytics team by providing insights in software design from a visualization and usability standpoint

Software Engineer at Antair Corporation

May 2008 - August 2008 (4 months)

Responsible for the user experience of a commercial puzzle game. Utilized Playground SDK, among other C++ SDKs, to generate special effects and improve gameplay. Assisted in developing

graphics for game elements. Created a level editor to facilitate and streamline the development of said game. Improved company's flagship product, a Java ME-based spam filter software for the BlackBerry platform. Provided technical support for all company products.

Deputy Staging Location Manager in Philadelphia, PA at Obama for America 2008 - 2008

Co-coordinated deployment of volunteers on Election Day 2008 so that we could canvass as much area in Philadelphia as possible. Handled voter intimidation and voter disenfranchisement claims and assisted in coordinating and managing phone banks within staging location

Research Assistant at University of Florida

September 2007 - May 2008 (9 months)

Collaborated with faculty members in implementing recurrent neural network structures, in conjunction with established and novel nonlinear filters, for use in the identification of explosive material.

Teaching Assistant at University of Florida

August 2006 - August 2007 (1 year 1 month)

Updated and redesigned laboratory manual and class curriculum for Introduction to Circuits laboratory course. Provided instructional and clerical support to professors. Taught course to 3 sections of electrical, mechanical and computer engineering students. Executed teaching modules of said laboratory, and provided assistance to students in circuit design, theoretical understanding of circuit components, and understanding real-world limitations to circuit design.

Research Assistant at Northeastern University

May 2005 - May 2006 (1 year 1 month)

Collaborated in the project: "4D Visualization of 4D CT Scan Datasets", developed new modules based on the SCIRun Problem Solving Environment that characterize how much radiation dosage a patient's tumor receives, along with other programs that assist doctors in better characterizing tumors in a 3D environment. Mentored Research Experience for Undergraduates (REU) student who assisted in developing a 3D modeling program that controlled how 4D CT-Scan data was projected on a 3D environment.

Web Development Co-op at MIT Lincoln Laboratory

June 2004 - April 2005 (11 months)

Maintained current intranet websites, assisted permanent web developers in creating websites, developed both web objects and websites, participated in meetings with clients to get website specifications; integrated link-verification software, along with other software, on the laboratory intranet.

Education

Columbia University - Fu Foundation School of Engineering and Applied Science

PhD, Computer Science, 2010 - 2013

Activities and Societies: Intel Fellow, National Consortium for Graduate Degrees for Minorities in Engineering and Science Fellow

Columbia University - Fu Foundation School of Engineering and Applied Science

Master of Science, Computer Science, 2008 - 2009

University of Florida

Master of Science, Electrical and Computer Engineering, 2006 - 2008

Activities and Societies: Computational NeuroEngineering Laboratory Member, Electrical and Computer Engineering Graduate Student Organization

Northeastern University

Bachelor of Science, Computer Engineering, 2003 - 2006

Activities and Societies: Eta Kappa Nu Member, IEEE Member, Northeastern University Computer Architecture Research Group Member, Gordon Center for Subsurface Sensing and Imaging Center Undergraduate Researcher

Honors and Awards

Roland Guyer Porter Memorial Award, Who's Who Among College Students, National Dean's List

Interests

Programming, Digital Photography, understanding new technology, playing percussion instruments, traveling, writing short stories and scripts, reading novels.

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Contact Nicolas on LinkedIn