Benevolent Computing

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The Critique

THE WALL STREET JOURNAL.

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KEYWORDS

Is Silicon Valley Funding the Wrong Stuff?

By **CHRISTOPHER MIMS**
July 6, 2014 7:07 p.m. ET

Social networks that allow you to send only the message "to your contacts. Food-delivery services valued at $400 million. Startups that deliver rolls of quarters to your (just $27 for $20 in change!).

The Washington Post

Wonkblog

Is Silicon Valley only interested in the problems of twentysomethings?

By Ezra Klein   May 27, 2013

The Response

What is Benevolent Computing?

- Applications which leverage social media, mobile applications, cloud computing and big data to address social needs.

- Systems which leverage new business models to achieve sustainability and scalability.

- A new interdisciplinary research area focused on user-centered design, team dynamics, and open source technologies to create robust solutions for social good.

Academic Pioneers

Technology + Activism = Computing for Good

C4G

Being a Socially Active Citizen of the World through Computing

About C4G

A culture of philanthropy and the history of computing...
Georgia Tech College of Computing. Technolog...
decades, and now a major promise of computer scie...
the progress of communities and the advancement...

Stony Brook University **MAGAZINE** 03 | WINTER 2018

2011 Course   Readings Sources

2009 Lectures   About

ISSUES

Computing for Social Good

"Benevolent computing" harnesses technology for a better world.

BY CHRISTINE CESARIA

Read the story

⌄

Benevolent Computing Teaching Goals

- Experience for students in building effective teams and working with clients
- Field work identifying problems and stakeholders
- Research of viable solutions, technologies, and platforms
- Visualizing and documenting research and proposed solutions through a design brief
- Implementing a prototype, with integration and iteration in mind, through publication of source code and a software design document
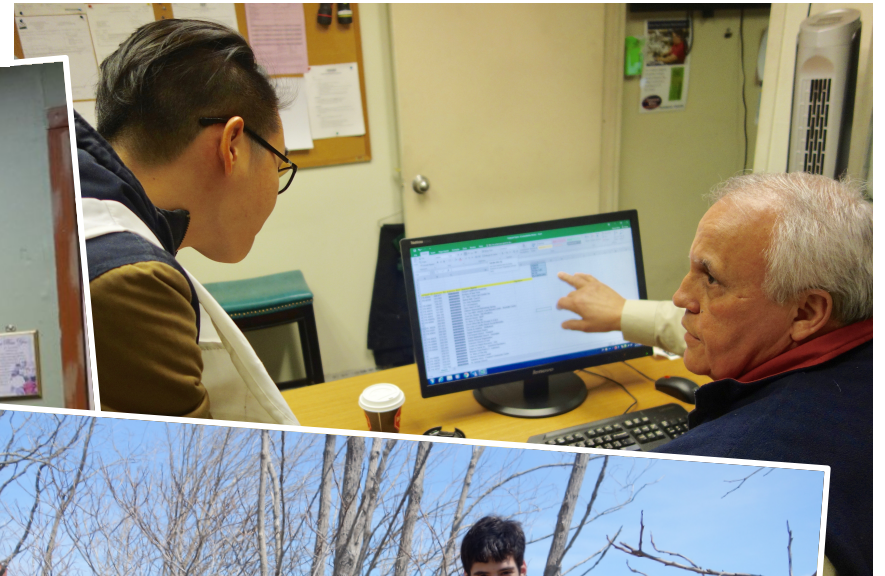
Project Selection

Team Work

Working with clients

Field Work

Technology

Design and Implementation
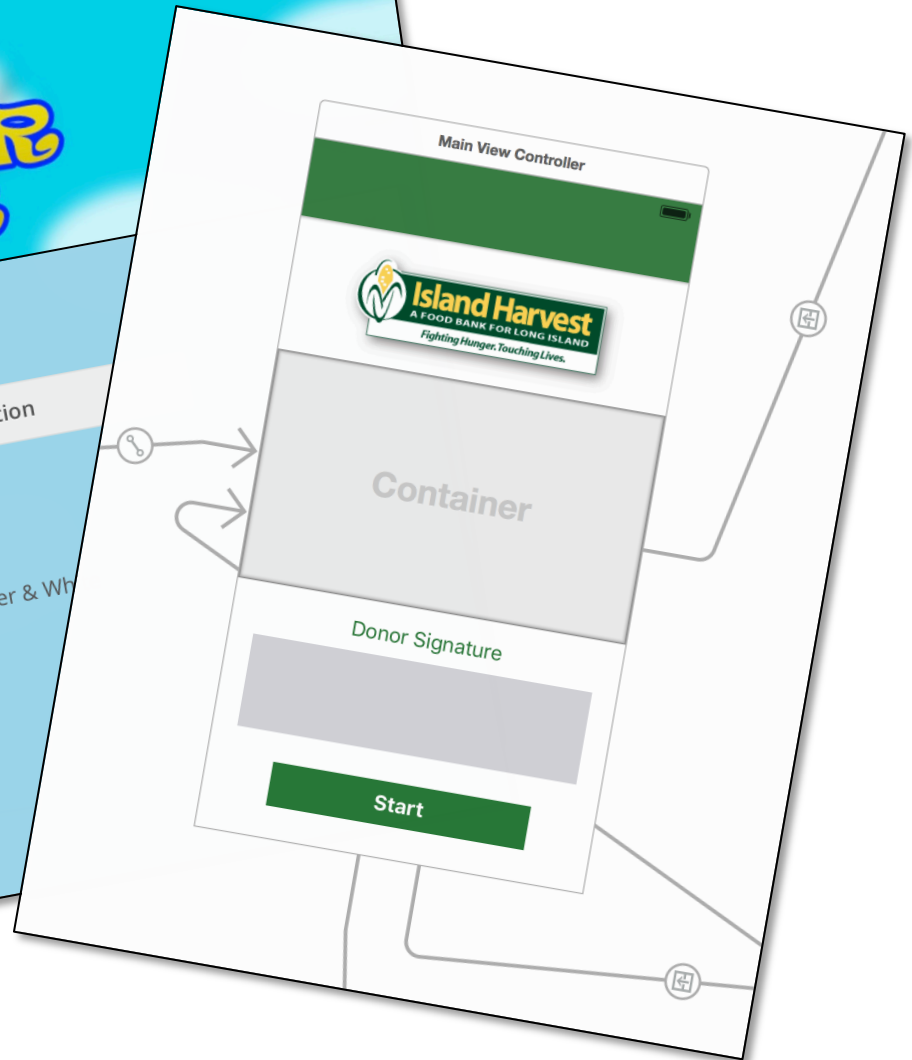
Pilots (ES BOCES, Cleary School)

Publications

- IEEE Xplore
- IASTED
- Journal of Educational Technology Systems

iSIGN: MAKING THE BENEFITS OF READING ALOUD ACCESSIBLE TO FAMILIES WITH DEAF CHILDREN

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Investigating the Impact on Fluid Intelligence by Playing N-Back Games with a Kinesthetic Modality

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J. EDUCATIONAL TECHNOLOGY SYSTEMS, Vol. 33(2) 165-172, 2004-2005

**FINGERSPELL:
LET YOUR FINGERS DO THE TALKING***

TONY SCARLATOS

DMITRI NESTERENKO

State University of New York at Stony Brook

Presentations and Press

Pet Project

Elizabeth Crowe '15 brings 'Benevolent Computing' to Smithtown Animal Shelter

Reviews

"I wanted to send feedback for this group because they truly went above and beyond for me.

They took their time explaining every detail so I would understand it. Nicole was available by email almost weekly. She helped me with other computer or technology needs like changing adobe files to PDF files so I could redesign our brochure.

The new design of the website is much cleaner and easier for clients to navigate to find what they are looking for. I love the design of the logo which brings the color I was looking for.

I appreciate them working with me after the project to get all the projects onto the site and begin using them all.

Again, I appreciate all the details, like recognizing all the supporters, designing a logo, setting up the ability to take donations. They listened to my ideas and needs of Sunshine and addressed them.

I appreciated the opportunity to work together with this Team and thank you again for everything.

Sincerely, Carol"

– Dr. Carol Carter, Director of Sunshine Prevention Center, Port Jefferson , NY

Current Work
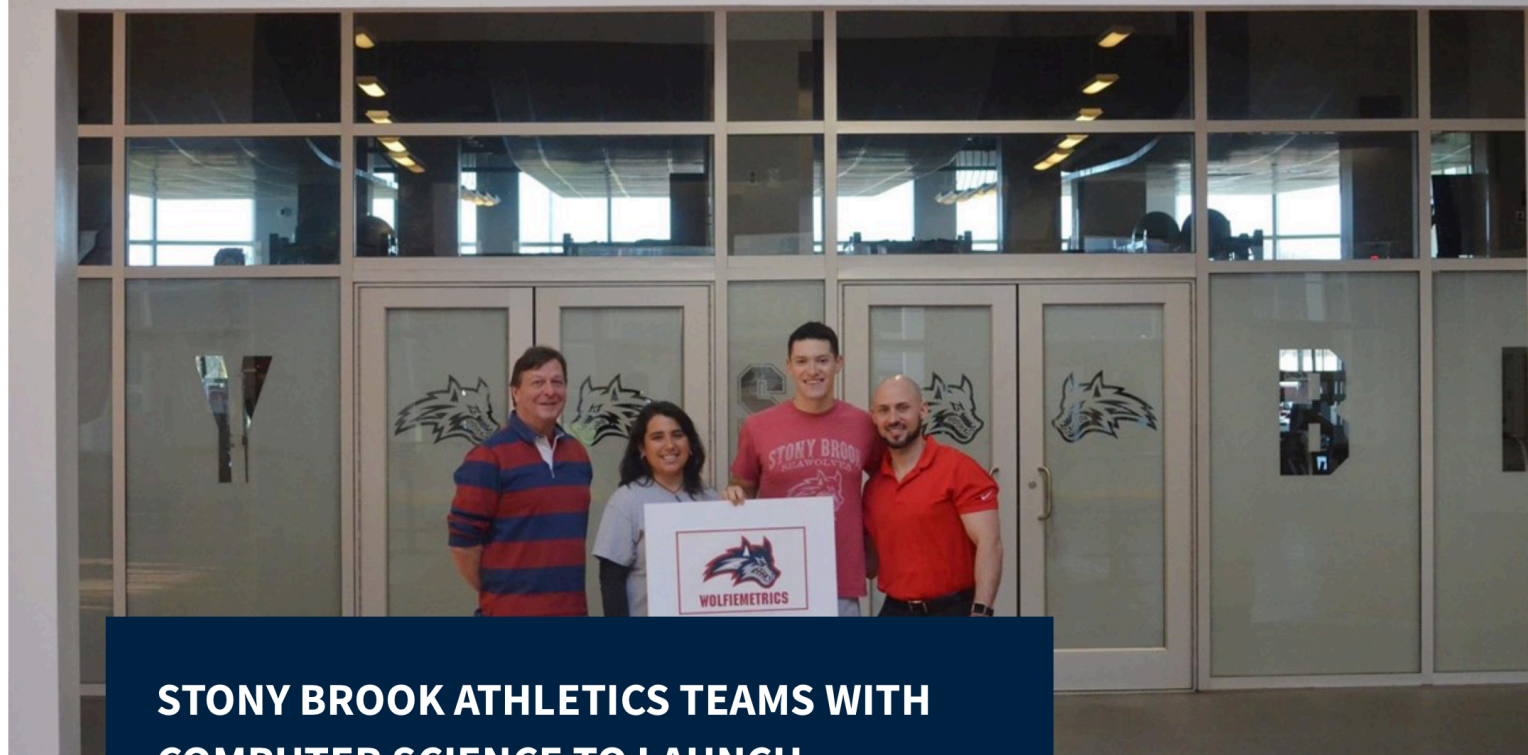
STONY BROOK ATHLETICS TEAMS WITH COMPUTER SCIENCE TO LAUNCH WOLFIEMETRICS

Conclusions

- Benevolent Computing provides students with a rich environment for experiential learning and development of critical thinking skills

- Socially-oriented software development attracts a diverse, interdisciplinary range of students; and challenges them to collaborate with each other, clients, and stakeholders

- Computing for Good projects help rebut the antisocial and unethical stereotypes of CS and engineering students, and provide assistance to local non-profits

Any Questions?

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https://xsrv.mm.cs.stonybrook.edu/c4g/ncsce_talk.pdf

Agencies Served

- Response of Suffolk County
- LI Coalition for the Homeless
- LI Harvest
- Sunshine Prevention Center
- EAC
- This Machine Feeds
- Long Island Against Domestic Violence
- Boy Scouts of America
- Toys of Hope
- Global Innovation Team
- Smithtown Animal Shelter
- Cleary School for the Deaf

Select industry and non-profit links

Google.org
https://www.google.org

Code for America
https://www.codeforamerica.org

MobileActive
http://www.mobileactive.org

Sahana Software Foundation
https://sahanafoundation.org

Engineering for Change
https://www.engineeringforchange.org/category/information-systems/

Games for Change
http://www.gamesforchange.org

Academic Links

Georgia Tech's Computing for Good Program
https://computingforgood.wordpress.com

https://bitsofgood.org

https://www.networkworld.com/article/2270704/applications/
computing-for-good--web-technology-to-solve-human-problems.html

Stony Brook University's Benevolent Computing Program
https://xsrv.mm.cs.stonybrook.edu/c4g/

https://www.stonybrook.edu/magazine/2018-winter/computing-for-
social-good

Select Project Links

Shelterware

https://xsrv.mm.cs.stonybrook.edu/c4g/shelterware_sbu_feature.pdf

Sunshine Prevention Center Web Site:

https://www.sunshinepreventionctr.org/

Response of Suffolk County Call Data Visualization:

https://xsrv.mm.cs.stonybrook.edu/c4g/response_stats.pdf

Select Project Links

iSign (Cleary School for the Deaf):

https://xsrv.mm.cs.stonybrook.edu/TS/research/iSign/iSign.html

iSign IASTED paper:

https://xsrv.mm.cs.stonybrook.edu/publications/iSign_IASTED.pdf

Select Project Links

SBU World Trade Center Health Program

Tech Report:

https://tr.cs.stonybrook.edu/tr/sbcs-tr-2017-6

Oral history videos and transcripts:

http://130.245.140.252:8080/engage/ui/index.html