Daniel Windham

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Harvard College '16
- Physics and computer science candidate
- Took 2012-2013 academic year off to work on Athena (knowledge tech startup)

Tangible Media Group, MIT Media Lab   February 2015 – present
Undergraduate Researcher, Lead Software Developer
- Developed software architecture for coupling static objects to dynamic shape displays and built seven demo applications
- Built another half-dozen applications exploring shape-recording, touch-sensing, force-feedback, and proximity-sensing. Developed the research agenda and applications.
- Second author on UIST 2015 paper and on candidate TEI 2016 and CHI 2016 papers
- Rebuilt our software stack. Taught our grad students and helped them code apps.

Viewpoints Research Institute   June 2015 – present
Research Consultant / Intern
- Exploring visual representations of computer program execution; connecting this to prototyping new programming languages. Side project during full-time work at TMG

Aspuru-Guzik Quantum Chemistry Lab, Harvard University   Summer 2014
Undergraduate Researcher, PRISE Fellow
- Wrote software to machine learn corrections to DFT band gap predictions. 20% gain

Ness – restaurant recommendation startup, $20MM funding   Summer 2013
Web Development Intern
- Rebuilt restaurant page, reducing bounce rate by 50%
- Developed interface for recommendations customized to a group's combined tastes

Athena – knowledge mapping startup   June 2012 - June 2013
1st employee, Frontend Web Developer
- Designed and built frontend architecture and UI for user-editable directed graphs
- Built a general-purpose web media remixer with custom YouTube and Vimeo support

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Software Engineering – github username: tenedor
I have completed projects in C++, Javascript, and Python and worked with half a dozen other languages. I built a python control-flow visualizer and am writing a git tutorial.

Community
- Organize regular "French Enlightenment style" salons where students give delightful and informative talks, perform poetry and music, and discuss ideas they're excited about. This leads students see their peers as teachers and their teachers as peers.
- Directed and grew high school Canned Food Drive through three years: developed solicitation program and led 2010 drive, increasing food collection 50% to 62,500 lbs.

Other
- Enjoy art and design; have taught classes on art history, lead Lowell House murals, and have taken figure drawing and painting courses
- AMC math competition top percentile nationally, highest score ever in my high school
- Played tennis on undefeated NorCal varsity high school team