

Daniel Windham

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Harvard College '16

- Physics and computer science candidate (coursework: 28% CS, 21% physics, 14% math)
 - Took 2012-2013 academic year off to work on Athena, an ed-tech startup
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Tangible Media Group, MIT Media Lab

February – September 2015

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.
 - Rebuilt the entire shape display software stack, making it cross-platform and globally organized (github.com/tmggit/omniFORM). Taught the codebase to four of TMG's grad students and supported them in developing their own applications.
 - Second author on UIST 2015 paper, fourth author on CHI 2016 paper.
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Viewpoints Research Institute

June – August 2015

Research Consultant / Intern

- Explored visual representations of computer program execution in connection with prototyping domain-specific languages. Side project during full-time work at TMG.
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Aspuru-Guzik Quantum Chemistry Lab, Harvard University

June – August 2014

Undergraduate Researcher, PRISE Fellow

- Wrote software to machine learn corrections to DFT band gap predictions. 20% gain.
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Ness – restaurant recommendation startup, \$20MM funding

July – August 2013

Web Development Intern

- Rebuilt website's restaurant page and created group recommendations page.
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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, Python, and C and worked with half a dozen other languages. I built a python control-flow visualizer and am writing a git tutorial.

EE, other – I have experience with electronics and a range of 3D fabrication technologies.

Community

- Organized recurrent “French Enlightenment style” salons where students give delightful and informative talks, perform poetry and music, and discuss ideas they're excited about.
 - 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.
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Other

- Enjoy art and design; have taught classes on art history, launched Lowell House murals, and 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.