



## Michael Woods

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EDUCATION	<b>Master of Science in Engineering, Computer and Information Science</b> University of Pennsylvania Jan. 2012 – May 2015 (expected) <ul style="list-style-type: none"><li>• GPA: 3.54/4.0</li><li>• Coursework in machine learning, computer vision, physically-based rendering, and computational linguistics</li></ul>
	<b>Bachelor of Science, Computer Science</b> (cum laude) Rutgers, the State University of New Jersey Jan. 2003 – May 2007
WORK EXPERIENCE	<b>Abramson Cancer Center, University of Pennsylvania</b> <b>Application Developer</b> Philadelphia, PA Nov. 2010 – Present <ul style="list-style-type: none"><li>• Created the first iteration of the Abramson Cancer Center Applied Research Database (ACCORD), a unified clinical and research data aggregation platform that simplifies the day-to-day data management and analysis tasks of cancer researchers.</li><li>• Wrote an interactive data exploration tool that allowed non-technical staff to create, save, and transform database queries and reports via a simple, responsive web interface.</li></ul>
	<b>AmeriFlex</b> <b>Software Developer</b> Mt. Laurel, NJ Apr. 2010 – Nov. 2010 <ul style="list-style-type: none"><li>• Created and maintained a number of in-house tools that automated many of the tedious and error-prone tasks conducted daily by business staff.</li><li>• Reverse engineered and subsequently rewrote an undocumented proprietary ACH payment processing system critical to the functioning and profitability of the business.</li></ul>
	<b>New Jersey State Parole Board</b> <b>Software Developer</b> Trenton, NJ June 2007 – Apr. 2010 <ul style="list-style-type: none"><li>• Developed an innovative, public-facing geographic parolee search tool with an integrated absconder tip submission interface. With the help of the public, a number of useful tips were received by the tool that led to the apprehension of fugitive parolees.</li><li>• Created the official New Jersey State Parole Board website (<a href="http://www.state.nj.us/parole">http://www.state.nj.us/parole</a>) utilizing standards compliant design. The Google Maps API was utilized to create an interactive map of SPB district offices throughout the state.</li></ul>
PROJECTS & PORTFOLIO OF WORK	See <a href="http://mikewoods.io">http://mikewoods.io</a> and <a href="http://github.com/mikeswoods">http://github.com/mikeswoods</a>
PROFESSIONAL INTERESTS	Python, C++, Julia, Haskell, OCaml, functional programming, type systems, machine learning, data visualization, natural language processing, computer vision, raytracing, OpenGL/shaders, procedural generation