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Michael Abelar

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Education

Philadelphia, PA	Jerome Fisher Program in Management and Technology at the University of Pennsylvania	2017-present
<ul style="list-style-type: none">• Pursuing a B.S.E in Computer Science and a B.S in Economics		
Freehold, NJ	Biotechnology High School	2013-2017
<ul style="list-style-type: none">• Cumulative GPA: 97.02/100• Ranked as #8 in U.S. News & World Report's "Best High Schools in America" and #1 in U.S. News & World Report's "Best High Schools in New Jersey"		

Publications

Research Publication	Journal of Information Assurance & Cybersecurity	2016
<ul style="list-style-type: none">• Project: A Comparative Analysis of Various Security Applications for the Android Operating System• URL: http://ibimapublishing.com/articles/JIACS/2016/955268/		
Research Publication	Journal of Agricultural Engineering and Biotechnology	2015
<ul style="list-style-type: none">• Project: The Application and Optimization of Metal Reflectors to Vertical Greenhouses to Increase Plant Growth and Health• URL: http://www.bowenpublishing.com/jaeb/paperInfo.aspx?PaperID=16664		
Published Book	HTML For Novices by Novices	2015
<ul style="list-style-type: none">• Introductory tutorial book for web programming in HTML• Over 50,000 downloads• Spanish Translation also available• More information: https://goo.gl/v0ISLs		
Published Book	Mobile Application Ideation	2017
<ul style="list-style-type: none">• Book describing the art of generating successful mobile application ideas• https://www.amazon.com/dp/B075177K6M		

Awards and Certifications

The White House, Washington, D.C.	The President's Environmental Youth Award	2016
<ul style="list-style-type: none">• Received national award from the Environmental Protection Agency for combating deforestation in the Pine Barrens with more efficient vertical greenhouses• Press Release: https://www.epa.gov/newsreleases/white-house-epa-honor-environmental-educators-and-student-award-winners• White House Blog: https://goo.gl/pVPk1k		
AT&T Bell Works, Holmdel, NJ	Speaker at the June 2017 Holmdel Idea Summit	2017
<ul style="list-style-type: none">• Spoke about Claytronics and programmable matter to over 300 researchers, entrepreneurs, and engineers• Event website: http://theholmdelideasummit.com• Press release: http://tworivertimes.com/bell-labs-innovation-lives-on-in-holmdel		

Stockton University, NJ	2nd place in Computer Science at Jersey Shore Science Fair	2015
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- Project: A Comparative Analysis of Various Security Applications for the Android Operating System

The College of New Jersey, NJ	Technology Students of America State Conference 1st Place Webmaster Competition	2015
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- Programmed website to raise awareness and offer solutions for electronic waste
- URL: <http://dangersofewaste.byethost7.com>

Programming Experience and Qualifications

App Developer	Android App Developer	2014-present
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- 190,000+ cumulative downloads
- Published over 20 Android Applications: <https://goo.gl/23jdGk>

App Developer	Windows App Developer	2014-present
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- 100,000+ cumulative downloads
- Published over six applications
- All applications: <https://goo.gl/MaQzMN>

Creator	Type Melee	2016-present
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- <http://typemelee.com>
- Online competitive typing game

Intern	Splendor	Feb 2017- June 2017
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- Worked with the WordPress platform and created webpages using HTML, CSS, JS, and PHP for client websites
- Learned and practiced search engine optimization techniques to get the company website to the first page of Google for popular search phrases: "NJ web design" and "NJ logo design"

Creator	Type Melee	2016-present
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- <http://typemelee.com>
- Online competitive typing game

YouTube Channel	Redefining Productions Programming Tutorials	2015-present
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- View at <https://goo.gl/q76gzH>
- Over 25 tutorials published on various languages

YouTube Channel	Very Visuals	2017-present
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- View at <https://goo.gl/aapPDQ>
- Videos of my animations created in Processing

Scientific Software	WormTraq	2016-present
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- View at <http://wormtraq.herokuapp.com>
- WormTraq is an open source online web application which is able to detect and measure *Caenorhabditis elegans*.
- First and only online worm detection software

Founder	ByTheDigits.com	2015-present
<ul style="list-style-type: none"> • News website that searches the internet for news articles and refines them to remove the bias by only providing numbers and statistics • Goal: Allow readers to formulate their own opinions on news without bias using simple statistics • Read more about it at http://www.bythedigits.com 		

Leadership and Activities

STEM Program	Stem Scholar in the Governor's Stem Scholars program	2015-2016
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- One of 60 students in New Jersey who toured New Jersey, learned about opportunities in science, technology, engineering, and mathematics, and communicated with state leaders in STEM.
- Article in The Monmouth Journal about my involvement in the program: <https://goo.gl/Tt8u9F>

Club	Penn Labs	2017-present
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- Club that develops software for the University of Pennsylvania
- Android developer working on new features for Penn Mobile (an app that helps students manage campus life): <https://goo.gl/LQ5r5p>

Club	PennApps	2017-present
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- Developer for Penn's hackathon
- Created the application portal: <https://my.pennapps.com/>
- Created the landing page for PennApps 17: <http://2018w.pennapps.com>

Club	Penn Blockchain	2017-present
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- Club dedicated to learning about and developing programs for blockchain technologies
- Solidity developer for the Ethereum blockchain

Skills

- Programming languages: Python, Java, C++, Swift, Ruby, HTML, PHP, CSS, Javascript, JQuery, Processing, XML, MATLAB, OCaml
- Software: Microsoft Suite, Adobe Flash, Adobe Dreamweaver, Adobe Muse, Adobe Photoshop, Adobe Captivate, Adobe Edge Animate, GitHub, Visual Studio, XCode, Android Studio, Google SketchUp