

## Alexander M. Johnson

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## Education

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- **Oregon State University** Corvallis, Oregon  
*Bachelor of Science in Computer Science* *Expected December 2018*
  - Cumulative GPA: 4.0
- **Lewis & Clark College** Portland, Oregon  
*Bachelor of Arts in Sociology & Anthropology* *June 2009*

## Work Experience

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- **Wilson High School** Portland, Oregon  
*Computer Science Classroom Volunteer* *October 2017 - Present*
  - Assist students under direction of nationally-recognized computer science teacher Chris Bartlo.
  - Help students formulate solutions to programming challenges and integrate third-party libraries.
  - Guide students through C++ syntax, functionality, and GUI implementation.
- **Qatar Academy** Al Wakra, Qatar  
*Mathematics & English Teacher* *August 2013 - July 2017*
- **WGBH** Boston, Massachusetts  
*Digital Editor, The Takeaway* *February 2012 - April 2013*
- **Oregon Public Broadcasting** Portland, Oregon  
*Associate Producer, Think Out Loud* *October 2010 - February 2012*

## Projects

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- **Air Pollution Monitor** Doha, Qatar  
*C, JavaScript, Java, Android, Arduino* *March 2014 - Present*
  - Built the only publicly-accessible air pollution monitor in Qatar.
  - Shared data via monitoring unit's LCD display, mobile application, and dohadust.org.
  - Helped citizens make informed decisions about their health as it relates to air quality.
  - Coordinated with local universities on air quality research.
- **Rovergram** Portland, Oregon  
*JavaScript, HTML, CSS* *November 2017*
  - Designed and coded an Instagram-inspired gallery for Mars rover photos.
  - Gathered images dynamically from NASA's Mars Rover Photos API.
  - Employed Bulma CSS library for design and viewport responsiveness.
- **Tic Tac Toe in Assembly** Portland, Oregon  
*x86 Assembly* *August 2017*
  - Undertook project to solidify concepts learned in class on computer architecture and assembly.
  - Employed unique procedures for effective encapsulation.

## Open Source Contributions

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**Algos Algorithm Library:** Adding unit tests for sorting algorithms.

**Pixyll Jekyll Theme:** Added pagination functionality and fixed display errors related to viewport resizing.

## Skills

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**Languages:** C, C++, x86 Assembly, Python, JavaScript, MATLAB, MySQL

**Miscellaneous:** Android, Jekyll, Linux, Git version control, Visual Studio, Arduino and related hardware