

# Anita Ambalavanan

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<https://aniamb.github.io/>

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## Education

### **Purdue University, West Lafayette, Indiana**

May 2021

- Bachelor of Science in Computer Science
- Related Coursework: Object-Oriented Programming in Java
- Activities: LaunchPad Mentorship Program, TedxPurdueU, Philharmonic Orchestra, Purdue Hackers, South Asian Student Alliance

### **Centerville High School, Centerville, Ohio**

May 2017

- Honors Diploma, GPA: 4.1/5.0
- Related Coursework: AP Chemistry, Calculus, Computer Applications, Physics, AP Language and Composition, AP Spanish Language and Composition
- Activities and Honors: Speech and Debate (2-Time State Qualifier, State Quarterfinalist), National Honors Society, Spanish Honors Society, Philharmonic Orchestra (Violist)

## Skills

- Programming: Java, HTML/CSS (bootstraps), MySQL, Swift, Vim, PHP, Javascript, C++
- Operating Systems: Linux-Ubuntu, Windows, OSX
- Software: Adobe Lightroom, Adobe Photoshop, Microsoft Office Suite, Eclipse
- Other: Intermediate Spanish Skills (Reading, Writing, Conversational)

## Relevant Experience

### **Wright Scholar Summer Intern, Wright-Patterson Air Force Base, Ohio**

June 2016 - August 2017

- A collaboration with interdisciplinary engineering and cognitive science teams composed of civilian and contractor government workers through highly competitive STEM initiative.

#### Summer 2017

- Updated multiple databases via MySQL commands to ensure secure storage of user information and inputted data and protect against SQL injection.
- Modified open source mapping software in JavaScript to display dynamic sizes of features drawn onto the map and to display those sizes in the correct units required by the project.
- Crafted oscillator via JavaScript in order to produce a timed sound output controlled by a devised algorithm and designed a correlating Guided User Interface via CSS, Bootstraps, and HTML.
- Established a functioning Java Program through a series of classes and intermittent functions, ultimately intertwined with a Java Swing-based Guided User Interface.

#### Summer 2016

- Translated 28 native and unique lisp functions into Java methods to facilitate transition from lisp ---- ACT-R architecture to Java-based implementation and architected 186 unit tests to ensure proper functionality of methods.
- Designed system regression testing suite performing comprehensive analysis of language analysis Double-R theory through use of 158 unique sentences.
- Actively utilized and contributed to Java ACT-R Git repository to support version control and maintain stable build of Java code.
- Implemented full-stack user feedback form for MindModeling.org distributed computing initiative.

### **Editor, VibhaScope Volunteer Blog**

June 2014 - June 2017

- Initiated communication with action centers of Vibha (non-profit organization that helps children in India gain access to education and health care) to keep fellow volunteers up-to-date.