Tyler Yasaka

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Website: tyleryasaka.me

Educational History

University of North Alabama, Florence, Alabama

Major:	Computer Science
Minor:	Human Computer Interaction and User Experience (HCI/UX)
Degree:	B.S. May 2016
GPA:	4.0

Skills

Programming Languages
- C++, Python, Javascript, Prolog, Ruby, PHP

Web Development
- HTML, CSS, NodeJS, AngularJS, EmberJS, Ruby on Rails, jQuery, Bootstrap, Wordpress, Sass, MySQL, PostreSQL, ArangoDB, MongoDB

Software Development Tools
- Git, Subversion, Unix Terminal, Vim

Prototyping hardware
- Arduino, Raspberry Pi

Machine Learning
- Scikit-Learn

Professional/Paid Experience

PartCycle Technologies, Florence, AL
Software Developer, March 2016-Present
- Develop front end web application using EmberJS, HTML, CSS, Javascript, Sass, Bootstrap
- Develop back end web application using Ruby on Rails, PostgreSQL
- Develop administrative applications in Python and Django
- Use test-driven development in an agile environment
- Use Git for version control, Pivotal Tracker for project management

University of North Alabama, Florence, AL
Student Web Developer, October 2014-March 2016
- Developed the university website and internal web applications for the university
- Used HTML, CSS, Javascript, AngularJS, NodeJS, MySQL, MongoDB, PHP, Bootstrap
- Developed university calendar and announcement system
- Used Git for version control

Dynetics Technical Services, Huntsville, AL
Software Development Intern, Summer 2015
- Developed and maintained internal web applications for NASA's Marshall Space Flight Center
- Used HTML, CSS, Javascript, jQuery, PHP, NodeJS, and MySQL

- Used Subversion for version control

Collaborative Partnership to Teach Mathematical Reasoning through Computer Programming, Florence, AL
Student Web Developer, March 2014-October 2014
- Developed website for cpr2.org with HTML, CSS, Bootstrap, Javascript, jQuery, PHP, MySQL
- Used Git for version control

Freelance Web Development, 2013-2015
- Designed and developed customized websites for clients using PHP, MySQL, Javascript, HTML, CSS, Bootstrap
- Utilized Content Management Systems such as Wordpress, MODX, and Drupal

Honors and Organizations

Summa Cum Laude Graduate, 2016
University of North Alabama Keller Key Recipient, 2016
Kappa Mu Epsilon Mathematics Honor Society, inducted 2015
Secretary of Association for Computing Machinery, 2015-2016
Diversity Student Ambassador, 2015-2016
University of North Alabama Dean's List, 2012-2016
University of North Alabama Honors Program, 2012-2013
Japanese University Meal Program, 2012-2013

Research Experience

University of North Alabama, Florence, AL
Principal Investigator, 2015-2016
Improving Learning With Simple Immersive Virtual Environments
- Obtained a research grant to study possible relationships between virtual reality (using Head-Mounted Displays and noise-cancelling headphones) and learning in a distracting environment. Presented findings at the National Conference on Undergraduate Research in Asheville, NC and at the University of North Alabama 3 Minute Thesis competition in Florence, Alabama.
- Supervisor: Jason Watson, PhD

University of North Alabama, Florence, AL
HCI/UX Capstone Project, January 2016-May 2016
The Portal Experience- Designing and Testing a New Interface for Portal
- Used InVision and Axure to design two prototypes for a mobile version of University of North Alabama's online system, conducted user studies for prototypes. Presented findings May 2016.
- Supervisor: Jason Watson, PhD

University of North Alabama, Florence, AL
Programming Languages Research Paper, Fall 2015
Game Theory Modeling with Prolog
- Researched the programming language Prolog and investigated its potential relevance to game theory modeling for CS410 Programming Languages.
- Link: https://github.com/tyleryasaka/game-theory-modeling
- Supervisor: Janet Jenkins, PhD

Presentations

Yasaka, Tyler; Marlar, Jonathan; Watson, Jason. *Improving Learning With Simple Immersive Virtual Environments*. Presented at the National Council on Undergraduate Research, Asheville, NC, 2016; University of North Alabama 3 Minute Thesis Competition; Florence, AL, 2016; and University of North Alabama Research Day, Florence, AL, 2016.

Yasaka, Tyler. *Robots! Demonstration of an Arduino-powered robot programmed to detect the edge of a table.* Presented at Shoals Big Idea, Florence, AL, 2015.

Volunteer Experience

"The Collaboratory" Makerspace Grand Opening, July 2016
Florence-Lauderdale Public Library, Florence, AL
- Demonstrated hands-on projects using Arduino

Alternative Breaks, 2015-2016
- Fall break 2015: created and distributed recycled doghouses for an impoverished community near Harlan, Kentucky
- Spring break 2016: worked with Junior Achievement of New York to help youth develop practical life and career skills

IgniteCS, Spring 2016
Florence-Lauderdale Public Library, Florence, AL
- Sponsored by Google and organized by University of North Alabama Association for Computed Machinery
- Volunteered to help lead a weekly session to teach computer science principles and coding to grade school students in the community, using interactive and hands-on exercises

Hour of Code, December 2015
Florence-Lauderdale Public Library, Florence, AL
- Helped organize and participate in a local Hour of Code event, where grade school students learned the basics of coding in a friendly and fun environment

Language Partner, 2012-2013
University of North Alabama, Florence, AL
- Partnered with an international student from China to help this person become more acquainted with both the English language and English culture--and to just be a friend.

Open Source Software Contributions
Github profile: https://github.com/tyleryasaka
- SemanticUI Range Slider
- CKEditor Inline Save/Cancel
- Duck Duck Go Instant Answers