

PERSONAL INFORMATION **Joshua Fridstrom**

906 Dexter Ave. N.
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Seattle, WA 98109 USA

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josh@modtalk.org

WORK EXPERIENCE

June 2015 — Present Software Development Engineer

*Amazon Web Services – Training and Certification
Seattle, Washington USA*

- Took over the development of a distributed system for automating accounting services for the training organization.
- Developed and maintained backend java services to support AWS training organization's e-commerce.
- Worked on a team to build a Learning Management System (LMS) using ASP.NET MVC and over 25 different AWS services.

May 2013 — Present VM Engineer and Tools Developer

*Modtalk Project
Marquette, Michigan USA, Seattle, Washington USA*

Modtalk is an MIT licensed, modular implementation of Smalltalk based on some OOPSLA papers from 1989 and 1990. The project originated at Northern Michigan University (NMU) in 2013.

- Built a C-based testing framework to support the development of the language runtime.
- Worked on the first implementations of the threaded interpreter and bytecode runtimes.
- Wrote the Modtalk program loader and worked on other aspects of the compiler in Pharo.
- Worked on the IDE and other development tools in Pharo.
- Put together a command-line debugger prototype.
- Added a GUI to the debugger prototype in Pharo.

May 2014 — August 2014 Software Development Engineer Intern

*Amazon.com
Seattle, Washington USA*

- Data aggregation using Hadoop and Amazon Elastic Map Reduce (EMR).
- Generated reports with a backend java service and Amazon DynamoDB.

May 2013 — May 2014
August 2014 — May 2015

Web Developer

*Northern Michigan University – Communications and Marketing
Marquette, Michigan USA*

- Front-end web design with html and css.
- Google maps overlay application in javascript.
- Drupal customizations in php.
- Designed custom Wordpress themes.

May 2012 — August 2012

Customer Application Engineer Intern

*Intel Corporation
Austin, Texas USA*

- Supported Independent Software Vendors and supplied troubleshooting with CCF integration.
- Validated and reported customer bugs to the test engineering and development teams.
- Developed a suite of test applications for test engineering based on customer bugs.

April 2012 — May 2012
August 2012 — December 2012

Lab Engineer

*Northern Michigan University – Intel PoweredBy Lab
Marquette, Michigan USA*

- Designed and developed test cases for OEM hardware validation library.

EDUCATION AND RESEARCH

August 2011 — May 2015

B.A. in Mathematics and Computer Science

*Northern Michigan University
Marquette, Michigan USA*

Computer Science and Mathematics Double Major
German Language Certification

May 2013 — May 2015

Undergraduate Research Student

*Northern Michigan University
Marquette, Michigan USA*

Adviser: John Sarkela

Field of Research: Dynamic language runtimes and testing methodologies

Publications: Josh Fridstrom, Adam Jacques, Kurt Kilpela, and John Sarkela. *Testing Modtalk. XP2015: Experience Report.*

Presentations:

- *Modtalk: A Modular Smalltalk*. Smalltalks 2014, Córdoba, Argentina. Fundación Argentina de Smalltalk (FAST).
- *Modtalk: A Modular Smalltalk Workshop*. Smalltalks 2014, Córdoba, Argentina. Fundación Argentina de Smalltalk (FAST).

August 2012 — May 2014

Undergraduate Research Student

*Northern Michigan University
Marquette, Michigan USA*

Adviser: Mounia Ziat

Field of Research: Human-Computer Interaction

Publications: Ziat, M., Fancher, J., Kilpela, K., Fridstrom, J., and Clark J. J. *InGrid: Rethinking the Embodied Space. CHI 2013 Workshop on Blended Interaction: Envisioning Future Collaborative Interactive Spaces.*

LANGUAGES

English - native speaker

German - intermediate

REFERENCES

John Sarkela
Modtalk Project Lead
Instructor in Computer Science and Mathematics at Northern Michigan University
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