

# Tedman J. Marszalek

tmarsza2@illinois.edu

(224) 383-4458

## Campus Address

1002 S. 2<sup>nd</sup> St. #301  
Champaign, IL 61820

## Permanent Address

1012 West Campbell Street  
Arlington Heights, IL 60005

## EDUCATION

**University of Illinois, Champaign-Urbana, IL**

**Technical University of Denmark, Lyngby, Denmark**

Bachelor of Science in Engineering, Graduation: May 2016

Major: **Computer Science**

2012- 2016

Spring 2015

**GPA 3.52**

## WORK EXPERIENCE

**Software Engineering Intern**

**Northrop Grumman Corporation, Rolling Meadows, IL**

- I developed a DARPA funded VBA application to generate a user data module image file to input to an infrared counter measure pod's system controller.

- I created a C++ subsystem messaging simulator which tested military standard 1553 messaging between the specified subsystem and the pod's system controller.

Summer 2015

**Software Engineering Intern**

**Northrop Grumman Corporation, Rolling Meadows, IL**

- In the Infrared Countermeasure Systems research and development department I interfaced with a servo control module in C and C++ to manipulate two dimensional servo motor movements.

Summer 2014

## PROJECTS

**Student Apartment Finder**

My team and I aggregated local Champaign-Urbana apartment and housing information to develop an application for students that made the yearly housing hunt easier. My job was to build a parser to organize the apartment data scraped from a multitude of different websites.

**Ebola-Twitter Map**

My team and I built a map utilizing the Twitter and Google Maps APIs to geographically map tweets about the Ebola outbreak using geotags.

**Search Engine**

My teammate and I built a specialized Javascript /Ruby search engine after accumulating relevant databases in order to utilize text retrieval techniques.

**Prolog Inference Engine**

I developed a hierarchical knowledge base and inference engine in Prolog.

## TECHNICAL SKILLS

C++, Python, Ruby, C, Java, SQL, Access, Prolog, Visual Basic, HTML, Verilog, MIPS

VBA, Github, Subversion, IBM Rational ClearCase/ClearQuest, Eclipse, IntelliJ, Linux Ubuntu, Valgrind, Visual Studio, Microsoft Word, PowerPoint, Excel, Outlook

## HONORS AND ACTIVITIES

**Northrop Grumman Engineering Scholar**

**James Scholar**

**Psi Upsilon Fraternity**, Omicron Chapter

**CS Department Undergraduate Peer Adviser**

**Star Course RSO**, a student-run live concert promotion & production company

**University of Illinois College of Engineering Dean's List**

2012-Present

2014-Present

2013-Present

2014-Present

2013-2014

Fall 2012

## RELEVANT COURSES

**Text Information Systems (CS410)**

**Social Visualization (CS467)**

**Database Systems (CS411)**

**Numerical Methods (CS357)**

**Introduction to Artificial Intelligence (CS 02180 / CS440)**

**Cryptology I (CS 01410 / CS4xx)**

**Data Logic (CS 02281 / CS4xx)**