Jiwoong Youn

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Education

University of Illinois at Urbana-Champaign — **Urbana-Champaign, Illinois**
Bachelor of Science in Computer Science, GPA: 3.77 — *August 2010 – May 2014*

Experience

Abbott Laboratories — **Champaign, Illinois**
Software Development Intern — *January 2014 – Present*
- Enhanced PDRS web application by analyzing functional requirements, preparing an action plan, and identifying areas for modification
- Created technical documentation and delivered data-driven reports using SSRS

Information Trust Institute — **Urbana-Champaign, Illinois**
Programmer Intern — *Summer 2013*
- Corrected hierarchy and relationships in query concepts files and generated error-free versions of the files so that they match each other
- Provided statistics for a massive data set (50GB files) by analyzing information such as the frequencies of documents having specific concepts annotated in their titles
- Created a new data set after fixing the content of files in the original data set by using a complex combination of data structures and modifying annotated concepts based on the corrected concept hierarchy
- Visualized the complex hierarchy of concepts by using an open-source Java library called *JUNG*, leading to an easier analysis of the hierarchy

Research

Department of Computer Science, University of Illinois at Urbana-Champaign — **Urbana-Champaign, Illinois**
Researcher — *Spring 2013*
- Studied two different types of annotations which verified the nullness and reference immutability of objects in programs
- Used two inference tools, *NIT* and *JULIA*, to insert annotations into a benchmark suite of programs called *Jolden* and analyzed how the annotations affected the code
- Gained an understanding of how the checker framework used annotations to verify object properties by running it on *Jolden*
- Concluded that *JULIA* is a better tool than *NIT*, inferring 25% fewer nullable annotations, by analyzing the warnings generated by the checker framework

Projects

Open Source Contribution (LibreOffice) — *April 2014 – Present*
- Tweaked default settings and modified default labels of LibreOffice to handle feature enhancement requests reported by other users in Bugzilla for more convenient use
- Learned about the development lifecycle of large software, including thorough code reviews
- Communicated with advanced developers via the developer mailing list and IRC web chat to learn better approaches to problem solving

Daily Good (Android) — *Fall 2013*
- Developed an application in which users could cultivate an attitude of gratitude by allowing them to record the best part of everyday and view their histories obtained from the back-end server
- Managed the connection between the front-end and back-end server by creating useful static functions for HTTP requests and JSON parsing, allowing other front-end developers to call the functions to get necessary information from the back-end server

League of Legends Web Application (http://pentakill.web.engr.illinois.edu/) — *Fall 2012*
- Earned class distinction for finished product selected by TAs: "Hall of Fame"
- The application provided information about champions, items, runes, and abilities from a famous PC game, *League of Legends* and more importantly, it provided an interface where users could try out their particular settings or builds on a champion
- Parsed HTML codes using Java, managed application data using PHP and MySQL, and implemented filter system using JavaScript

Technical Skills

Programming Languages - Java, C, C++, Python, Assembly, OCaml, LaTeX
Scripting and Markup Languages - HTML, PHP, CSS, JavaScript (jQuery and AJAX)
Platforms - Android **Databases** - MySQL