

# Cory W. Jbara

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## EDUCATION: University of Notre Dame

*Bachelor of Science*

Computer Science

Notre Dame, IN

May 2017

GPA: 3.80/4.00 – Dean's list 2013-2017

## EXPERIENCE: HERE Technologies, Software Engineer, Chicago, IL (July 2017-present)

- Creating an end-to-end pipeline that ingests probe data from various sources and extracts useful map features using machine learning algorithms
- Developing a full-stack application to verify these machine learning predictions, with a backend Java REST service and a frontend AngularJS application
- Implementing scalable software design patterns to ensure security, scalability, and maintainability
- Deploying and consistently monitoring our pipeline and applications using Docker, Jenkins, and AWS

## HERE Technologies, Software Engineering Intern, Chicago, IL (Summer 2016)

- Worked as a full stack engineer developing two applications using AngularJS, Java, and Groovy. These applications doubled the efficiency of the map ingestion process in two separate areas
- Developed reusable AngularJS modules using Bower and Grunt, and combined these modules with others to create rich, front-end web applications
- Worked in an agile development team, creating new tools aligned with the company's overall objectives
- Designed and implemented a full-stack workflow to efficiently process data gathered by HERE True Cars
- Developed a thorough understanding of the process of creating a digital mapping platform

## GE Healthcare, Milwaukee, WI (Summer 2015)

- Worked in a small development team, using Ruby on Rails web framework and Twitter API, creating a web interface for use at conferences to display questions and comments
- Built a program in Python to reduce the size of long URLs using the GE Short Link API, thus increasing my understanding of computer networking and API usage
- Led a team of 12 on the Internet Explorer 8 Browser Remediation project, directing the formal testing and validation of 15 applications for Internet Explorer 11
- Gained knowledge of the development of larger software systems through projects, learning sessions, and discussions with GE colleagues

## LEADERSHIP: Hall Presidents Council Executive Board, Notre Dame, IN (March 2016-Present)

- Oversee 31 Hall Presidents, evaluating the work they are doing for their respective dorms, providing guidance and support for their terms in office

## Fisher Hall President, Notre Dame, IN (April 2015-April 2016)

- Organized and led monthly academic, social, service oriented, liturgical, multicultural, and athletic events for the 180 residents of Fisher Hall and other students at Notre Dame
- Directed dorm government by appointing commissioners and managing dorm budget

## PROJECTS: For more detailed information on my projects, please visit my website: [coryjbara.com](http://coryjbara.com)

**South Bend Map** – Used graph traversal to create driving directions around South Bend, IN (C++)

**Compiler** – Constructed a full compiler for a C-like language, including scanning, parsing, type checking and code generation (C)

**IrishTrade** – Created a web-based platform for students to buy and sell goods (PHP, Oracle)

**WhereYouAt** – Built an iOS app where users can see what their friends are doing (Swift, Firebase)

**ND Room Picks** – Created a web app for students to choose their on-campus rooms (PHP, MySQL)

**PacMan** – Programmed the arcade game using the original algorithm for ghost movement (C)

**Super Mario Bros** – Built an object-oriented version of the classic Nintendo game (C++)