

# Alexander Cao

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## Education:

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University of Notre Dame	Bachelor's of Science in Computer Science with Chinese Minor, May, 2017
University of Notre Dame London Summer Engineering Program	June, 2014
Penn High School in Mishawaka, Indiana	Graduated with Honors—Salutatorian, May, 2013

## Experience:

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**Revenue Cycle Scheduling Team**, Cerner Inc., Kansas City, MO | September 2017 - October 2018

*Software Engineer*

- Collaboratively planned and developed Revenue Cycle Rich Content Platform Application in an Agile development environment.
- Constructed Javascript interface components using npm, REACT, and node.js and connected them to Maven Java project to create intuitive and responsive interfaces for the Revenue Cycle Application.

**Devcenter**, Cerner Inc., Kansas City, MO | July 2017 - September 2017

*Software Engineer*

- Developed Volunteering Sign-up scheduling app with Ruby on Rails in an Agile development environment.
- Redesigned pages using Ruby on Rails, HAML and participated in design discussions to adhere to common industry practices.
- Refactored web controllers with Ruby on Rails so that internal logic adhered to Model View Controller design patterns.

**Database Access Team**, Cerner Inc., Kansas City, MO | June 2016 - August 2016

*Intern*

- Developed interface for database access application using Groovy, Grails, and CSS in an Agile development environment.
- Constructed interfaces according to requirements with CSS, reviewed coworkers' Grails code, and wrote Groovy unit tests.

**Learning Management Systems Team**, University of Notre Dame, Notre Dame, IN | May 2015- May 2016

*Intern*

- Developed Learning Tool Interoperability (LTI) tools using Java Database Connectivity (JDBC), SQL, and Ruby including for the University's instance of Sakai Learning Management System and Tsugi LTI platform.
- Attended Apereo 2015 conference, learned and reported on the state of the industry in education technology.
- Tested use-cases in University's current Sakai LTI platform and future Tsugi LTI platform.

**Computer Science and Engineering Department**, University of Notre Dame, Notre Dame, IN | October 2014 – May 2016

*Undergraduate Researcher*

- Worked with Notre Dame Athletics, developed apps for processing athletes' movement data gathered from force plates.
- Developed mobile apps for Android and Google Glass using Android Studio and Java and developed object-oriented programming skills while conducting research with Notre Dame Faculty.
- Researched methods of facial recognition on the Google Glass periphery using knowledge in networking and API's by using the AndroidCV library and exploring facial-recognition API's such as Face Recognition by Lambda Labs and Face++
- Researched methods of gait recognition on Android Wear devices using Android Studio and Java.

**The Observer**, University of Notre Dame, Notre Dame, IN | August 2013 – May 2016

*News Writer and Reporter*

- Wrote articles under strict deadlines and high quality standards to ensure *The Observer* maintains its place as Notre Dame's most popular student-led newspaper with timely, well-written content, developing journalistic ethics and writing skills.
- Reported on academic panels and talk and interviewed prominent University of Notre Dame faculty, staff, and alumni, researchers, local community leaders, and government officials.

## Technical Skills:

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**Programming Languages**

*Arranged by preference*

- **Javascript/HTML/CSS**: Web app development and design
- **JAVA**: RCP development with Maven, Mobile app development on Android, web app development and databases using JDBC
- **Ruby/Ruby on Rails**: Web App Development
- **C-Based Languages (C++/C/C#)**: Object oriented programming and memory management, 2D game development.
- **Python /bash/sed/awk/LaTEX**: Data processing, text and file processing

## Other skills:

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- Proficient Chinese (Mandarin and Shanghai dialect)
  - Fluent English (U.S. Citizen)
  - Working French