

# Ningzhou Zeng

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## Technical Skills

**Programming (Proficient):** C++, JavaScript, Ruby; **Programming (familiar):** Java, Python;  
**Data/Database:** Machine Learning, MySQL, PostgreSQL, MongoDB; **Libraries/Platforms:** Ruby on Rails, Node.js, ReactJS, D3, jQuery; **Markup/Templating:** HTML, CSS, ERB, JADE; **OS:** Mac OS, Linux, Windows;

## Education

2016-present **PhD, Computer Science**, *University of Kentucky*, Lexington, Kentucky, KY (GPA: 3.67/4.0)

2013-2017 **MS, Computer Engineering**, *Case Western Reserve University*, Cleveland, Ohio, OH (GPA: 3.67/4.0)

2009-2013 **BS, Optical Information Science and Technology**, *Sun Yat-Sen University*, Guangzhou, China (GPA: 3.4/4.0)

## Research & Project Experience

2016-present **National Sleep Research Resource - Cross Datasets Query Interface for Large Scale Datasets**, Institute of Biomedical Informatics, University of Kentucky (Team member)

- Big Data Software Engineer – Cross clinical centers datasets integration, data remodeling, data import, query optimization and coding inconsistency harmonization (Integrated, imported national sleep data and improved metadata query performance by 50 times)
- Software Developer – Developed a web-based workflow control application for common procedure management usage (Converted unstructured plain text into structured, organized and trackable workflow, which help to reduce sleep data integration workload greatly)

2016-2017 **Refactored Electronic Form(REForm)**, Institute of Biomedical Informatics, University of Kentucky (Design and develop by myself)

- Software Developer - Developed RESTful APIs web application using Ruby on Rails to manage data capture, survey builder and implement algorithm for intervention assignment system (2000 active users)
- UX Design - Web interface design and Agile development via ReactJS, HTML, CSS, jQuery

2014-2016 **Nurse Impact**, Case Western Reserve University (Team member)

- Software Developer - Designed and developed online educational application for hospital nurse using Ruby on Rails with MVC architectural pattern (2000 active users)

## Work Experience

2015-present **Part-Time Web Developer**, Dermatology Department of University Hospitals of Cleveland, Cleveland, Ohio

- Web Developer - Maintain and update existed department websites server and content, design and develop new website for physicians