

# Michael Lee

Washington, DC  
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## SUMMARY OF QUALIFICATIONS

A developer living in the Washington, DC area specializing in the creation of web applications, graphics, and other data-driven projects using R, Shiny, React, and D3. I teach workshops on R programming and data visualization.

### American Institutes for Research

July 2015 – June 2022

#### RESEARCHER

April 2019 – June 2022

- Lead developer of InCompass, an R/React web app analyzing International Large-Scale Assessments (ILSAs) data. Co-leads weekly meetings and directs development tasks to a team of four R programmers. Performs feature request reviews and facilitates development workflow on GitHub. Deploys and performs debugs with cloud architect to ensure stable.
- Developed 20+ animations products shared on the [@EdNCES](#) Twitter feed.
- Designed automated production systems for custom reporting of student and teacher level survey data for IAP study websites. Used R to manipulate and reshape survey results and D3.js to create interactive visualizations.
- Contributed to the development of [EdSurvey](#), an R package used for analyzing education survey data from the National Center for Education Statistics (NCES). Led 10+ training workshops regarding R programming and EdSurvey

#### RESEARCH ASSOCIATE

July 2015 – May 2019

- Lead developer of iNRD, an interactive shiny application that visualizes NAEP mathematics and reading results from 1990 to 2019. Delegated tasks and code reviews.
- Collaborated with designers to automate the production of over 10 unique reports featuring custom-designed LaTeX templates embedded with ggplot2 visualizations.
- Wrote R scripts to review data sets in longitudinal surveys to meet compliance standards.

### The Ballengee Group

November 2014 – February 2015

#### INDEPENDENT CONTRACTOR

- Web-scraped baseball-reference.com to create a database of minor league baseball statistics to model salary expectations for over 80 major and minor league baseball players.

### Milwaukee Public Schools

September 2011 – June 2013

#### SPECIAL EDUCATION TEACHER

- Led instruction, developed lesson plans, and created Individualized Education Programs appropriate for students with diverse learning needs and disabilities.

## EDUCATION

### Cardinal Stritch University

May 2013

MASTERS OF ARTS, URBAN EDUCATION

Milwaukee, WI

### University of Wisconsin-Madison

May 2011

BACHELOR OF ARTS, PSYCHOLOGY

Madison, WI

## SPECIALTIES

Data Analysis, Data Processing, Data Visualization, Web Development, Web Scraping, R Package Development, Technical Writing, Workshop Moderation, R, D3.js, SQL, Shiny, Excel, LaTeX, Javascript, React, React Native, HTML5, CSS, Interactive Workshops, Lesson Planning, Differentiated Instruction, Accessibility