

# ALEXANDER RICHARDS

## FULL STACK SOFTWARE ENGINEER

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## EDUCATION

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### University of Wisconsin - Madison

B.S. Computer Science, Political Science 2020

Fall 2017 - Spring 2020

### Marquette University

Data Structures and Engineering Credits

Fall 2015 - Winter 2015

## EMPLOYMENT

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### Walters Buildings, *Full Stack Software Engineer*, Allenton, Wisconsin

June 2020 - Current

- Developed and maintained application, website, and database from system design stage to testing and implementation
- Utilized MySQL, Azure, and the .Net platform in a development team of two to provide essential architecture for modernizing industry
- Created an internal Java Swing application to improve accuracy of vital company estimates using TensorFlow linear regression

### Division of Information Technology | UW - Madison, *Software Trainer*, Madison, Wisconsin

Oct. 2018 - May  
2020

- Designed and taught Java, Python, and Excel Formula courses to groups of more than 20 college students at a time
- Developed lesson web page with an embedded IDE to help cut required class and prep time in half

### Northwestern Mutual, *Software Engineer Intern*, Milwaukee, Wisconsin

June 2016 - Aug. 2018

- Utilized PowerBI and AWS to manage and navigate data warehouses to create powerful visualizations with linked corporate data
- Spearheaded development research for opportunities to better predict insurance trends using Python, TensorFlow and Sci-Kit libraries
- Utilized Kubernetes, Docker and AWS for testing and cloud continuity of architecture projects
- Built relevant experience in an Agile - Scrum corporate environment for project planning

### Wisconsin Department of Workforce Development, *Policy Analyst Intern*, Madison, Wisconsin

Oct. 2017 - May  
2018

- Coordinated with statewide government employees to strategize execution and analyze effect of of legislation
- Drafted concise policy-effect papers on research, keeping the Secretary of State up to date on regulatory execution

## SKILLS

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**PROGRAMMING LANGUAGES:** Java, SQL, Python, C#, JavaScript, C++

**PROFICIENCIES:** MySQL, PowerBI, Docker, AWS, Azure Dev Ops, Kubernetes, Tensorflow