# Eric M. Wallat

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## PROFESSIONAL SUMMARY

- Full-Stack Software Engineer with experience in healthcare and manufacturing industries
- Solid understanding of software development life cycle and best practices
- 3 years professional software development experience

## SKILLS & CERTIFICATIONS

*Computer Skills*      Python, Java, JavaScript, AngularJS, Ruby, Node.js, MongoDB, MySQL
*Global Languages*    Fluent in English, proficient in Spanish

## EDUCATION

**B.S. Nuclear Engineering and Engineering Physics, B.S. Physics**      May 2017
*University of Wisconsin-Madison*
Overall GPA: 3.5/4.0

## EXPERIENCE

Electronic Theatre Controls                                            June 2017-Present
*Full-Stack Developer*
- Implementing e-commerce solution using SAP hybris
- Creating interactive web page for site visitors to showcase remote control of our products
- Launched BigCommerce shop for EU customers

HealthMyne Inc.                                                       May 2015-May 2017
*Intern*
- Produced test procedures to ensure software adheres to FDA medical device regulations
- Implemented automatic testing scripts to improve efficiency of testing code check-ins
- Developed Python text processing scripts to anonymize large sets of patient sensitive data
- Used SQL and NoSQL databases to manage DICOM, CDA, and HL7 data
- Improved Java code for better data efficiency and UX following Agile-Scrum development

Linac-To-Go, Senior Design Project                                   January 2016-May 2017
- Designed a modular, mobile radiotherapy suite for treatment in third-world countries
- Used Monte Carlo to determine the effectiveness of the radiation shielding
- Optimized design to reduce cost and weight, while still properly shielding radiation

University of Wisconsin-Madison, Human Oncology                      June 2016-August 2016
*AAPM Summer Undergraduate Fellow*
- Analyzed over 200,000 cine-MRI images using MATLAB image processing
- Created algorithms to quantify target motion and treatment efficiency
- Recommended new definitions of target boundary and gating thresholds to decrease radiation treatment and exposure time by 20%

Wish Makers on Campus Organization                                  September 2014-May 2017
*Vice President*
- Planned social events, assisted with setting up fundraisers, and facilitated monthly meetings
- Raised over $3000 for Make-A-Wish Foundation

Center for Educational Opportunity, University of Wisconsin-Madison   September 2013-May 2015
*Academic Coach*
- Tutored first-generation and financially challenged college students in calculus