

Peter N. Dobbs

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EDUCATION *Master of Science, Computational Sciences* GPA: 3.7/4
Marquette University Graduate School, Milwaukee, WI, expected May 2020

Bachelor of Science, Biomedical Engineering - Biocomputing GPA: 3.5/4
Marquette University Opus College of Engineering, Milwaukee, WI, May 2018


PROFESSIONAL EXPERIENCE *Product Owner and DevOps Engineer* October 2018 - present
Marquette Energy Analytics, LLC, Milwaukee, WI


- Deploying regular updates for forecasting models on Azure
- Product owner for the GasDay Toolkit, an Excel COM Add-In that helps our customers analyze data and generate preconfigured reports on-demand.
- Primary contact for licensed products at five of our customer sites.
- Iteratively improving processes for data analytics and quality assurance

Application Support Specialist June 2015 - October 2018
GasDay Project at Marquette University, Milwaukee, WI

- Deployed regular updates to the energy demand forecasting AI models.
- Developed automation tools that decreased deployment time by 20%.
- Led process improvement for product testing and hand-offs

COMPUTER SPECIALTIES *Languages:* C#, C, Python, R, SQL, HTML/CSS/PHP
Concepts: CI/CD, Agile, REST, Deon Ethical Checklist, Requirements Engineering
Technologies: Git, Jira, TeamCity, Crucible, Trello
Platforms: Windows, Linux, AWS, Azure, MicroC/OS-II

FEATURED PROJECTS *EMR6050: Web Solution for an Urban Mental Health Clinic* 
A suite of cloud-based tools to meet the technical needs of a new behavioral health clinic. All instances and data are hosted on AWS. This project is on-going as a part of my Master's thesis project.

Team Great Lakes - Team Lead 
Competed with a group of students from Milwaukee and Chicago in the Society of Imaging Informatics in Medicine (SIIM) Hackathon at the 2018 and 2019 SIIM Annual Meeting. As Team Lead, I was directly involved in the requirements gathering or development for the following projects:

- **Forms on FHIR** (2019) - provides a UI for directly creating and editing FHIR resources for populating an AI-ready research FHIR server.
- **Follow-up of Noncritical Actionable Findings** (2019) - automated notification of primary care providers that important findings which are not critical for patient intervention at the time of the study are contained in radiology study. *This project placed 3rd at the 2019 SIIM Hackathon.*
- **Synoptic Reporting as an Enabler** (2018) - converts a synoptic (structured and coded) radiology report into a FHIR resource for storage in a FHIR server.

REFERENCES *available upon request*

WORLDLY EXPERIENCE

ENGINEERING WORLD HEALTH - SUMMER INSTITUTE

On the Ground Coordinator - Uganda 2018

- Instructed a mixed cohort of students from the Duke Engage program and 5 top-ranked Makerere University engineering students.
- Coordinated training and cultural experiences with Ugandan partners in Central and Eastern Uganda.

On the Ground Coordinator - Rwanda 2017



- Improved teaching materials for the 4 week in-country device repair and design in constrained environments course; TA'd the 4 week in-country course.
- Supervised and assisted the participants at their placement hospitals throughout rural Rwanda.
- Compiled reports on all placement sites that included an equipment inventory, equipment service report, and a final presentation of work and experiences from each of the participant groups.

Volunteer Biomedical Equipment Technician (BMET) - Rwanda 2016



- Spent 4 weeks studying medical device repair and design in constrained environments at IPRC in Kigali, Rwanda.
- Worked for 5 weeks in a BMET workshop in rural Rwanda, inventorying over 340 pieces of equipment and achieving a repair success rate of 74%, the best success rate of the program.

EXTRA- CURRICULAR ACTIVITIES

Marquette Birdhouse - Primary D-Line Handler

Fall 2016 - present

Playing for Marquette's D1 Ultimate Frisbee team. Fostering a fun but competitive atmosphere for developing student-athletes. We have reached the regional-level tournament in each season I have played.

Milwaukee Revival - Captain, Handler

Summer 2019 - present

Captained a summer club Ultimate team through its inaugural season. Developed positive relationships between players within the Milwaukee Ultimate Community who also play on rival college teams.

Marquette University Core Band - Drums & Percussion

Fall 2014 - Spring 2017

Exceeded the required attendance by playing at over 50% of all pep-band assigned events, including pep rallies and home volleyball and basketball games. Travelled with the Marquette Basketball and Volleyball teams to perform at various post-season tournaments. My favorite moment was getting to play in Madison Square Garden.