

Matthew Nizol

Senior Data Analyst

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Professional Experience

ArborMetrix, Ann Arbor, MI

Manager, Data Operations

06/2017 – Present

Senior Data Analyst

08/2015 – 06/2017

- Managed Data Operations team, identifying and driving product and process improvement initiatives
- Led analytic projects focused on episodes of care, unplanned readmissions, and other quality initiatives
- Wrote complex code in SAS, SQL, and PL/SQL on Linux
- Validated work via unit testing and impact analysis
- Refactored legacy code, reducing run time from days to hours
- Collaborated with a diverse team using Agile/Scrum

Michigan State University, East Lansing, MI

NSF Graduate Research Fellow

08/2013 – 08/2015

- Researched test data generation from conceptual data models
- Extended a state-of-the-art instantiation algorithm; Python implementation available at github.com/mnizol/ormpy
- Collaborated with LogicBlox, Inc. on research and publication

United BioSource Corporation, Ann Arbor, MI

Senior Clinical Programmer

09/2010 – 08/2013

- Wrote SAS code to analyze and report on safety and efficacy of Phase I-III oncology and cardiovascular clinical trials
- Followed CDISC standards such as SDTM and ADaM
- Developed a custom unit testing framework for SAS
- Gave technical talks at local and national SAS conferences

EDS / Hewlett-Packard, Flint / Pontiac, MI

Services Information Developer II

05/2003 – 08/2010

- Built warranty analysis and reporting tools using SAS on Unix involving time to repair linear projections and forecasting
- Designed a novel tree-based join algorithm
- Led programming efforts on GM's warranty reserve adequacy studies, reviewed by auditors and senior GM leadership

Skills

- **Coding:** SAS; SQL; PL/SQL; Python; Linux/Bash; C/C++
- **Data:** Cleaning; transforming; analysis; reporting; visualizing
- **QA:** Unit testing; n-version programming; impact analysis
- **Innovation:** Algorithm design; process improvement
- **Leadership:** Mentoring; strategic planning; recruiting

Education

Michigan State University

M.S., Computer Science (4.0)

University of Mich. at Dearborn

B.S., Computer Science (3.92)

Honors Program Student

Publications

See nizol.net/publications:

- MiSE 2014
- PharmaSUG 2013
- MWSUG 2011
- MWSUG 2010

Awards

- NSF Graduate Research Fellow
- MSU Distinguished Fellowship
- U of M Dearborn Full-Tuition
- Robert C. Byrd Scholarship
- UPE Honor Society
- UM Emerging Leaders Program