

Michael E. Nelson
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EDUCATION

Michigan State University, East Lansing, MI Aug 2015 – May 2018
M.A., Media and Information

North Park University, Chicago, IL Aug 2007 – May 2011
B.A., History

EXPERIENCE

Software Engineer II Aug 2017 –
GP Strategies Corporation

- Extracting parts of a Java monolith to a Spring Boot app running on Amazon ECS and implementing Strangler-pattern request proxying with Spring Cloud/Zuul
- Writing automated unit, integration, and end-to-end tests (JUnit, Selenium)
- Provisioning infrastructure and deploying cloud-native services with Terraform, Docker, AWS CLI, Maven, and Git in webhook-driven Jenkins pipelines
- Utilizing operations analytics tools (AppDynamics, Amazon CloudWatch, ELK stack, JMX) to provide application support

Front End Developer Feb 2017 – Aug 2017
Matrix Center for Digital Humanities and Social Sciences

- Worked on the peer-review mechanism of an open access academic journal
- Developed WordPress theming (PHP, JavaScript, HTML, CSS) from design comps

Full Stack Developer Jan 2017 – Aug 2017
School of Social Work, Michigan State University

- Designed, developed, and deployed an app for data upload, processing, and visualization
- Programmed behavior in Python (Flask) and JavaScript (React.js, D3.js)

Research Assistant Sep 2015 – Aug 2017
Department of Advertising and Public Relations, Michigan State University

- Prepared and analyzed data with Python, R, and IBM SPSS
- Implemented psychological research protocols (AMP, TAP) as JavaScript applications

Web Accessibility/Usability Intern Sep 2015 – May 2016
College of Arts and Letters, Michigan State University

- Remediated websites and LMS courseware for WCAG 2.0 compliance
- Reported on usability and accessibility to academic technology leaders in the College

CERTIFICATIONS

Certified Scrum Master (CSM), Scrum Inc. May 2019

SKILLS

- Developing software with Java, Scala, Node.js, Python, and C++
- Describing and manipulating relational data (SQL, SQL PL for IBM db2 for z/OS)
- Implementing data access via ORMs (Hibernate, SQLAlchemy) and via JDBC or ODBC
- Using feature toggles for rapid deployment and release
- Data modeling and database design (PostgreSQL, Microsoft SQL Server, MongoDB)
- Managing code under version control (Git, Subversion)