

Miles Dowe

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Software developer with an interest in back end development, software architecture, and learning through my work.

EXPERIENCE WITH...

AWS, Azure, Bash, C++, Docker, Git, Java, JavaScript, Jenkins, JUnit, Jupyter Notebook, Linux, Maven, NodeJS, Python, REST, SOAP, SQL (Oracle, MySQL), Spring Boot, TDD, TravisCI, Vim

PROFESSIONAL EXPERIENCE

Epsilon, Dallas — *Machine Learning & AI Developer*

APRIL 2017 - PRESENT

Though labeled as a machine learning developer, I mostly function as a back end web developer. I work remotely with a small team to support several clients, maintaining recommender services. I support existing applications, integrate recommendation models into web services, and infrequently run general market analyses.

- Supported 8 code projects across 2 primary clients; including development, testing, operational maintenance, and database design.
- Maintained monolithic Oracle Real-Time Decisions (RTD) SOAP services.
- Refactored legacy code towards testable, object-oriented design.
- Introduced both TDD and version control to a distributed team. Strove for adoption of best practices.
- Created and maintained automated integration tests for aforementioned services.
- Assisted and trained new employees.

Holland America Line, Seattle — *Web Applications Developer*

NOVEMBER 2014 - APRIL 2017

Production support turned back end enterprise developer. Provided fault-tolerant, greenfield applications and made incremental improvements to legacy applications.

- Refactored legacy codebases, providing object-oriented designs in place of common antipatterns.
- Reduced failure rate of an email batch process from 20% to 0.1%.
- Developed RESTful Java web service APIs for customer-facing websites and internal applications.
- Managed Git repositories of 5 systems in absence of CICD and educated peers on Git branching patterns.
- Provided thorough documentation of applications both developed and overseen.

Launch Consulting Group, Bellevue — *Application Analyst*

NOVEMBER 2013 - NOVEMBER 2014

Worked onsite for client *Holland America Line*. Assigned to perform architectural recovery on legacy systems and provide documentation for under-development applications.

- Responsible for the diagramming and documentation of front and back end systems.
- Developed automated report of errors encountered across several web services through log parsing.
- Provided bug fixes for issues relating to internal applications.

EDUCATION

University of Washington, Bothell — *M.S. Software Engineering & Computer Science*

SEPTEMBER 2013 - JUNE 2018

My capstone work involved prototyping a CAQDA web application, establishing a mutualistic relationship between ethnographers and machine learning developers. More details can be seen under *Projects*.

University of Washington, Seattle — *B.A. English Language and Literature*

SEPTEMBER 2010 - JUNE 2012

Received Bachelor's of Arts in English Language and Literature. Elective courses focused on Computer Science.

PROJECTS

Wide-Field Ethnography — *Ethnographic research platform*

Wide-Field Ethnography is a conceptual, cloud-distributed ethnographic research platform conceived by David Socha.

I developed a web application to facilitate collaboration between ethnographic researchers and machine learning experts. I posited data categorized through CAQDAS usage are viable inputs for learning models, reinforcing an interdisciplinary bridge between the domains of social science and artificial intelligence.

- Inherited Python code that parses laughter signals from WAV files.
- Created a RESTful *affective computing microservice* to retrieve laughter data from MP4 videos.
- Created an Angular webapp for documenting laughter, marking laughter as test samples, and retraining models.
- Most of the code developed is publicly available on GitHub: <https://github.com/citwild>