Miles Dowe

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

EXPERIENCE WITH…

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

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 within 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 and 2 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 to our initially smaller team.
- Frequently praised for exceptional communication, documentation.

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 less maintainable legacy applications.

- Refactored legacy codebases, providing improved object-oriented designs in place of common antipatterns.
- Reduced failure rate of an email batch process from 20% to 0.1%.
- Developed portable Java back end services, intended to be scalable for containerization.
- Developed RESTful web service APIs for consumption by 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

Assigned to perform architectural recovery on legacy systems and provide accurate documentation.

- Responsible for the diagramming and documentation of front and back end systems.

Pacific Office Automation, Seattle — *Data Entry Clerk*

SEPTEMBER 2012 - NOVEMBER 2013

On-site facility manager turned data entry clerk. Processed sales information using proprietary .NET application.

- Provided courteous service to clients, resolving hardware issues related to company printers.
- Exercised creativity by making simple VBA scripts for simplifying repetitive tasks.

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, positing that data categorized through CAQDAS usage can be used as viable inputs for learning models.

- 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