MUNTAZIR FADHEL

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CAREER PROFILE

A Machine Learning Engineer with AWS Release Engineering Experience, acknowledged for integrity, high professional standards, and technical ability. Able to empirically evaluate and develop Machine Learning based algorithms to solve challenging problems and advance business goals. Performs well under pressure; a productive, positive leader sharing in team successes.

PROFICIENCIES

FRAMEWORKS & LANGUAGES

`python`, `java`, `JavaScript`, `TensorFlow`, `sklearn`, `scipy`, `numpy`, `jupyter`, `Amazon Web Services`, `docker`, `Spring Boot`, `jenkins`, `Travis CI`, `GitHub`, `maven`, `Artifactory`, `git`

KEY SKILLS

`issue resolution`, `project leadership`, `neural networks`, `implementations/deployment`, `Support Vector Machines`, `Object Oriented Programming`, `planning/development`, `Natural Language Processing`, `Statistical Language Models`

EXPERIENCE

DATA SCIENTIST, RESEARCH ASSISTANT

2017 – 2018

ADVANCING WATER TECHNOLOGIES (AWT) PROGRAM, McMASTER UNIVERSITY

- Designed and evaluated machine learning solutions to achieve reliable real-time fault detection in water quality sensor readings.
- Researched and explored the use of various machine learning algorithms in detecting data anomalies.
- Analyzed and tuned models using feature engineering to continuously improve predictive performance as new trends were discovered.
- Communicated findings and research progress with industry stake-holders and representatives on a regular basis.

BUILD AND RELEASE ENGINEER

2016 – 2017

IBM CANADA SOFTWARE LABS, MARKHAM, ON

- Developed and maintained CI/CD pipelines for core IBM Eclipse products: IBM Liberty Developer Tools, Bluemix Tools, Node.js Tools.
- Lead source code migration from IBM's Rational Team Concert to GitHub and created new continuous integration pipelines using Travis CI, maven, and Artifactory as part of a company wide Open Source initiative.
- Introduced code delivery process changes and developer tooling improvements resulting in increased developer productivity and code quality.
- Mentored and collaborated with developer and cross-functional teams to ensure successful quarterly and bi-weekly releases.

WEBSPHERE/BLUEMIX ECLIPSE TOOLS DEVELOPER

2014-2015

IBM CANADA SOFTWARE LABS, MARKHAM, ON

- Delivered critical software patches for high severity customer escalations and defects.
- Directed day to day operations of the test automation framework and coordinated daily with developer teams to facilitate constantly maturing product testing requirements.
- Expanded the existing test automation framework to support UI/functional based testing and developed initial POC tests resulting in increased product test coverage by 10%
- Coordinated test improvement plans resulting in streamlined quarterly releases and increased product quality.

.NET WEB DEVELOPER

2013

ATOMIC ENERGY OF CANADA LIMITED, CHALK RIVER LABORATORIES, ON

- Developed and designed web application to manage key activity data for protected areas of the nuclear site for the Emergency and Protective Services Department.
- Developed code to interface application with electronic signature pads to capture employee signatures.
- Managed the entire project from initial client consulting through design and development phases to application deployment and maintenance.
- Implemented feature requests for other applications, fixed existing bugs in the module while adding the feature, resulting in cleaner, better documented code.

EDUCATION

M.A.SC., THESIS MASTER'S IN SOFTWARE ENGINEERING

EXPECTED MAY 2018

Dissertation: *"Towards Automating Code Reviews Using Naturalness"*

McMaster University, Hamilton, ON

BACHELOR OF SOFTWARE ENGINEERING EMBEDDED SYSTEMS CO-OP

2016

McMaster University, Hamilton, ON

CURRENT PROJECTS

THESIS DISSERTATION

"Towards Automating Code Reviews Using Naturalness"

- Designed and conducted experiments evaluating the use of probabilistic models of source code in performing human-like code reviews.
- Trained and evaluated statistical language models developed over millions of lines of code mined from GitHub.
- Implemented custom SVM classifiers to categorize human code review comments.
- Experimental results indicated the researched Machine Learning based techniques were able to detect entire categories of defects existing static analysis tools are not capable of.

Clarity-Bot

A GitHub integration that enables semantics-assisted code reviews.

- Designed structure-diffs to visualize architectural properties of GitHub pull requests resulting in faster, higher quality code reviews.
- Implemented highly available, secure, micro-services based architecture using Spring Boot.
- Developed and configured docker based continuous delivery pipeline on jenkins along with multiple AWS infrastructure resources: EC2, Elastic Container Service, VPC, Security Groups, Route 53, Elastic Load Balancer.