Mehdi Merali

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Technical Skills:

Programming Languages: Java, JavaScript, C++, C, Python, SQL, Groovy, TypeScript, GIT, HTML, Git, CSS, Ruby
Frameworks: OSGi, ReactJS, Mocha, Swagger, Dojo, MicroProfile, JUnit
Programming Tools: Gradle, Maven, Jenkins, Docker, Postman

Professional Experience:

International Business Machines, Poughkeepsie, NY
Software Developer   **June 2018 – Present**

- Collaborate on developing a portal for executives to post projects and match them with engineers seeking additional projects. Incorporate gamification feature to provide rewards-based system for engineers completing them. *Tools used: React, Carbon UI, Swagger, Node, Docker, and DB2*
- Design, implement, and test new features for IBM WebSphere Liberty Java Application Server requested by clients:
  - Created MVS console command to provide server request metrics for active, slow, and hung requests.
  - Extended existing security API with methods that provide system administers with more information on authorization failure and allow application developers to check authorization on datasets stored on z/OS.
  - Added auditing functionality to SAF Authorization API and created template for Kibana dashboard that allows system administrators to visualize audit records and determine if there is a threat.
  - Implemented REST API to change password for z/OS MVS Console. Allows application developer to build a form to change passwords and call it using.
  - Create functional automated tests for each feature that run as part of regression test on each monthly release for quality assurance.
- Work to enhance z/OS middleware products to modernize them and make them more efficient for developers and system administrators.
  - Implemented PKCS11 security driver for IBM HTTP Server running on z/OS platform. Used API to encrypt server session which ultimately allowed for applications to do form-based authentication. *Tools used: C, Apache Portable Runtime Unit Test Library*
  - Prototyped application to enable users to use a REST API to access data stored on a VSAM Database. Enabled interface to pass data from top layer down to assembler layer where handler stores data on volumes. *Tools used: Java, JNI, C, MicroProfile, Jax-RS, Swagger OpenAPI, and WebSphere Liberty*
- Visit various universities as a developer advocate and gave talks on microservices, Java application development, and working at IBM. Participate in corporate volunteering events and hackathons.
- Created weekly pipelines that runs at the start of the work week to automate building all of the team's test environments. *Tools used: Jenkins, Gradle, Bash, Groovy, Artifactory*

ID Tech Camps, Garden City, NY
Java Instructor   **May 2016 – August 2016**

- Introduced the fundamentals of object-oriented programming and syntax of Java to students. Created sample products based on the lesson plans to help students gain a hands-on experience while learning key concepts.

Education:

Binghamton University, State University of New York, **Thomas J. Watson School of Engineering**
Bachelor of Science, Computer Science   **Graduated May 2018**
Watson School Dean's Honors List for Fall 2017

Leadership Experience:

Kappa Sigma Fraternity, Binghamton, NY
Vice President, Secretary, Philanthropy Chairman   **March 2015 – May 2018**

- Collaborated with local church to organize and serve at local soup kitchen project for CHOW
- Assisted the Make-A-Wish Foundation with hosting charity 5k on Campus which raise over $10,000 for two years in a row