Noman Siddiqui

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TECHNICAL SKILLS

- *Languages:* Python, R, Bash, C/C++, Java, SQL, PowerShell Script, HTML/CSS, JavaScript, LaTeX.
- *DevOps Technologies:* Docker, Kubernetes, OpenShift, Helm, Jenkins.
- *Tools/Technologies:* Git, Node.js, React, SpringBoot, Maven, Java Message Service (JMS) API, Apache ActiveMQ, Swagger/OpenAPI, Linux Logical Volume Manager (lvm), VirtualBox/VBoxManage.
- *Methodologies:* Functional, Imperative, and Object-Oriented Programming, RESTful APIs.
- *Robotic Process Automation (RPA):* UiPath.
- *Operating Systems:* Linux, macOS, Windows 10.

EDUCATION

University of Waterloo, Waterloo, Ontario, CA

- Bachelors of Mathematics, Honours   2019
  - Major in Computational Mathematics, with minors in Computer Science and Statistics.

WORK EXPERIENCE

International Financial Data Services (IFDS), Toronto, Ontario, CA

- *DevOps Engineer*, Product Engineering

  Continuous Integration/Continuous Development (CI/CD) Team   May 2018 – Dec 2018
  - Leveraged cutting edge container technologies Docker, OpenShift and Kubernetes to adopt various proprietary/legacy, full-stack and third-party software applications to new CI/CD Software Development Lifecycle (SDLC).
  - Containerized a variety of software applications, including full-stack applications, databases (PostgreSQL, MySQL, MariaDB), servers, and enterprise applications like CloverETL with Docker and OpenShift/Kubernetes.
  - Created several different continuous deployment environments – for developer testing using a local MiniShift instance and for further formal QA, testing and demos, using multiple OpenShift clusters.
  - Supported on-boarding projects to new CI/CD SDLC by providing initial PowerShell scripts to allow developers to continuously build and deploy their projects to any arbitrary container environment.
  - Supported developers extensively, including helping integrate developer environments with container technologies, adopting their applications for use and connectivity in container environments, creating user manuals on Confluence.
  - Developed Helm charts to give developers an easy to use and flexible way to configure deployments of application stacks to any environment.

- *R&D Developer*, Product Engineering

  Enterprise Architecture   Jan 2018 – May 2018
  - Developed a proof-of-concept (POC) of a RESTful API using Java, Spring Boot, JMS and Jackson to translate messages retrieved from ActiveMQ instance(s) from XML to a JSON equivalent and vice-versa.
  - Implemented a Java JAXB annotation processor to generate code for controller functions for each of the 300+ APIs.
  - Generated JSON OpenAPI Specifications (OAS 3.0) describing API, using Swagger, for request and response messages originally specified by XML Schema Definitions (XSD).
  - Developed a POC for the RPA platform UiPath, to automate critical use cases with IFDS applications, and demonstrated usability of the UiPath Platform on a set of virtualized desktops.
  - Pitched a startup style plan to senior executives to use UiPath Platform to automate and monitor critical, time-sensitive and repetitive tasks for TA Operations – this was quickly prioritized for broader adoption in Europe.
  - Served as a point of contact for support on further development of an RPA practise in Europe for the rest of the year.

Ontario Institute of Cancer Research (OICR), Toronto, Ontario, CA

- *Software Engineer*, Reimand Lab at OICR   May 2016 – Aug 2016
  - Developed a computational pipeline using R, with Bioconductor packages to scrape, archive and analyze massive DNA microarray datasets.
  - Executed batch jobs on Sun Grid Engine (SGE) computing cluster to process large datasets.
  - Implemented webpages for different computational and storage software using R and Shiny.
  - Wrote queries in SQL to help users with data extraction from DNA microchips.

Irdeto, Ottawa, Ontario, CA

- *Software Engineer*, Over-the-top (OTT) Team   Sep 2014 – Apr 2015
  - Wrote bash scripts for internal optimization/technical investment, executed as nightly Jenkins jobs.
  - Developed a user-friendly command line tool, in Python, that allowed clients to modularly integrate Irdeto libraries with mobile applications, to secure the OTT media content streamed from those applications.
  - Integrated Python's unit testing library extensively.
  - Debugged C code in Visual Studio, Java code in Eclipse.