# Mihai Nicolae

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### **Technical skills**

- Languages: Golang, Python, Java, JavaScript, C/C++, Bash, SQL
- Cloud, containers: AWS, Docker, Kubernetes, EKS
- Data, compute: MySQL, SQL Server, DynamoDB, Spark, Kafka, AWS Lambda
- Frameworks, tools: React.js, Redux, Gasket, Jenkins, CloudFormation, Chef, ELK, Git

#### Education

### **University of Toronto**

September 2010 — April 2015

Computer Science Specialist, Honours Bachelor of Science in Computer Science

## **Experience**

GoDaddy

April 2019 — Present

### Software Development Engineer II - Domains

- Rebuild Domain Broker Service application in Golang, migrate it to AWS, and integrate it with Salesforce CRM for managing claims.
- Improve operational efficiency of broker agents by implementing fault-tolerant step function that aggregates and reconciles info for a CRM lead from eight different API services.
- Improve engineering operational metrics by automating AWS infra deployments, EKS cluster upgrades, integrating alerts with on-call callouts, forwarding APM metrics to ELK stack.
- Provide operational support for critical customer-facing systems, tools, and APIs, as part of regular on-call rotation.

IBM January 2017 — April 2019

## Software Development Engineer II - Cloud Pak for Data

- Improve UX of Jupyter notebooks by implementing Python, Scala, and R packaged libraries to return Spark or Pandas DataFrames for JDBC and HDFS data sources.
- Increase Spark cluster extensibility and security by implementing CLI tools to import Spark application jars, custom JDBC drivers, and SSL certificates for data sources.
- Improve product extensibility by implementing backend Node.js service to upload, validate and use custom Docker images for Jupyter, Zeppelin and RStudio runtimes.

#### IBM

July 2015 — December 2016

## Software Development Engineer I - Db2

 Improve the usability and compliance of Db2 native encryption by adding support for centralized key management over the KMIP 1.1 and PKCS#11 standards.

### **University of Toronto**

January 2015 — April 2015

### Undergraduate Research Assistant

 Parallelize the graph search and dictionary creation for the Noema taxonomic system, resulting in 8x and 180x speed-ups. Work with Apache Hadoop, Boost Graph Library (BGL).

#### **IBM**

May 2013 — Aug 2014

### Software Development Engineer I - Db2 (internship)

• Increase Db2 availability by implementing instance configuration parameter COMM\_EXIT\_LIST to be configurable online. This allows communication buffer exit libraries to be loaded and unloaded dynamically without restarting the Db2 instance.