

# Mihai Nicolae

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## WORK EXPERIENCE

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### GoDaddy

2021 – Present

Senior Software Engineer

- Lead multi-quarter projects that significantly increase GCR and margin and reduce fraud. Namely, ID verification, onboard premium tier domains for member auctions, XYZ and IO TLDs for expired auctions, allow rate-limited access to closeout domains endpoints to all customers, augment daily inventory files with Majestic SEO data from GoDaddy data lake.
- Lead multi-quarter projects that improve performance and availability of GoDaddy products. Namely, AWS multi-region data center redundancy for Domain Broker Service, retire on-prem Node.js API Gateway.
- Lead initiatives for infra and application deployment automation and cost optimization. Notable deliveries: automation to spin-up and tear-down CloudFormation stacks, perform global Aurora unplanned failover, recreate non-compliant EKS node groups, use rotated IAM role credentials, use spot instances in EKS, right-size Fargate deployments.

### GoDaddy

2019 – 2021

Software Engineer

- Contribute to rebuild of Domain Broker Service by implementing API service in Golang to integrate with Salesforce CRM and serverless components that perform domain fulfillment.

### IBM

2015 - 2019

Software Engineer

- Lead team of 3 engineers responsible for developer experience. Deliver 99.9% availability of CI/CD pipelines by hosting Jenkins on right-sized on-prem Kubernetes cluster. Reduce build time by 4x by optimizing IO bound operations with pigz and tmpfs.
- Increase extensibility of open-source runtimes by implementing libraries to return DataFrames for JDBC and HDFS data sources, tools to import jars, JDBC drivers and certificates and packaging Spark clusters running different releases into the product.
- Add support for custom runtimes by implementing API endpoints in Node.js to manage custom Docker images of open-source runtimes.
- Improve security and compliance of Db2 native encryption by adding support for master key management through HSMs (Hardware Security Modules) using the PKCS#11 protocol.

### IBM

2013 – 2014

Software Engineer (internship)

- Increase Db2 availability by implementing instance config param [COMM\\_EXIT\\_LIST](#) to be configurable online; this allows [comm. buffer exit libraries](#) to be loaded and unloaded dynamically without restarting the Db2 instance.
- Lead the QA for Db2 native encryption; this resulted in 50 bug tickets opened, 60% of which were SEV 1.

## EDUCATION

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### University of Toronto

2015

Honors Bachelor of Science in Computer Science, Computer Science Specialist

## SKILLS

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- **Languages:** Go, Java, C#/.NET, C/C++, Python, Node.js, JavaScript/TypeScript, SQL, Bash, Open Policy Agent, React / Redux
- **DevOps:** Jenkins, GitHub Actions, Git/GitHub, Elastic, NewRelic, CloudFormation, Helm
- **Infra, platform:** AWS, Docker / Kubernetes, EKS, Fargate, Linux, SQL Server, MySQL, Db2, Aurora, DynamoDB, Apache Spark, Hadoop, HDFS, Kafka, RabbitMQ, Kinesis, Lambda, Step Functions