

# Dev Shah

[devsh2694@gmail.com](mailto:devsh2694@gmail.com) • 647-809-1766

[LinkedIn](#) • [Github](#) • [Medium](#)

A passionate autodidact generalist with blended experience of over 6 years in DevOps, testing, & machine learning. Strive to deliver high quality products through automation, continuous improvement & learning.

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## WORK EXPERIENCE

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### SENIOR AUTOMATION DEVELOPER (DevOps), BORROWELL

Toronto, Nov 2019 – Present

- Automation
  - Automating developer processes to enable faster delivery & shorten feedback loops
  - Design, build & maintain CI/CD pipelines for a **cloud native microservices architecture**
  - **End to end infrastructure automation** from source code uptill monitoring/alerts for web & mobile apps
  - Assisted in planning and implementing continuous delivery for multiple microservices
  - Assisting in production **deployments for a 2M+ user base**
  - Debugging production issues & monitoring system uptimes
- Infrastructure & Testing
  - Co-owning **delivery of Infrastructure as Code (IAC)** using Azure CLI, Azure DevOps & Bash
  - Automated environment provisioning process to have repeatable on demand environments
  - **Led test framework** migration (Selenium to Cypress) to **reduce test cycle time by 90%** thereby unlocking CD
  - Optimized & **reduced test infrastructure costs by 94%** annually ~\$23,500
  - Designed & implemented a **scalable mobile test framework & CI/CD** (Detox)
  - Successfully set up a virtual (mobile) device lab for Android & iOS
- R&D & Leadership
  - Developed **internal engineering metrics dashboards** (Azure, SQL, Snowflake) to drive continuous improvements
  - PoC & integrated better fit tools/frameworks along several areas - accessibility, mobile CI, infra, testing & security
  - **Automation thought leader**, mentoring a team of 3-4 junior developers & automation testers

### TECHNICAL LEAD, MYPLANET

Toronto, June 2018 – Nov 2019

- Tech Lead
  - Entrusted to **design an end-to-end serverless e-commerce solution** - architecture, stack & implementation
  - **Wore multiple hats as a tech lead** - Backend developer, Devops, Test Automation
  - First ever project in **company's history to successfully implement continuous delivery (CD)**
  - Highly **satisfied client who extended our contract** for 3 more phases post delivery
  - Stack: Gatsby, React, Moltin, AWS Lambda, S3
- Machine Learning
  - Built an **image based recommendation system PoC** for a major furniture client
  - Leveraged MLaaS APIs to build a model for object detection & image recognition
  - Secured automation & machine learning **projects of \$75K+ based on POC's**
  - Stack: Python, Jupyter Notebooks, Google Vision, Clarifai
- QA Lead
  - Facilitated full stack QA activities & implemented custom test automation solutions across projects
  - **Led the QA team** and served as a skills mentor for engineers
  - **Promoted a stronger quality mindset** and established testing processes (automation, performance & release)
  - Built innovative approaches to **automate processes thereby saving 30%** time of design & engineering teams
  - Stack: Java, Javascript, Selenium, Cypress, Taurus

### SENIOR QA, MINDSARRAY TECHNOLOGIES

Mumbai, Oct 2016 – Sep 2017

- **Headed a team of 3 testers** and was in charge of test automation at all levels
- R&D of best fit automation technologies
- **Improved release quality by 25%** and developed a basic automation framework
- Identified process gaps and assisted in implementing improvements to make the release process streamlined
- Stepped up to **take end to end ownership** of a new product which contributed in **surpassing revenue targets of \$200,000 daily**

### QUALITY ENGINEER, S&P GLOBAL

Delhi, July 2015 – Oct 2016

- Diligently carried out black box, exploratory and usability testing to **ensure bug-free releases consistently**
- **Brainstorm sessions with product team** for possible enhancements and leveraged domain knowledge to carry out impact analysis
- Conducted Java and automation **knowledge sharing sessions** to increase productivity
- Automated new, data-driven features, build and regression test suites to **reduce testing efforts by 50%**
- **Received breakthrough rating** in performance reviews

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## TECHNICAL SKILLS

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- **Languages:** JavaScript, Python, C#, YAML, Bash, SQL
- **AWS:** S3, Lambda, CodeBuild, CodePipeline, CLI, Cloudwatch
- **Azure :** Azure DevOps, CLI, App Service, Functions, Key Vaults, Storage Accounts, Logic Apps, Virtual Machines, Monitoring
- **Testing:** Selenium, Cypress, Detox, JMeter, Taurus
- **Tools & Frameworks:** Docker, Snowflake, Terraform

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## EDUCATION

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### QUEEN'S UNIVERSITY

Master of Science in **Computing, Machine Learning**

Canada

2017-2018

### NMIMS

Bachelor of Technology in **Computer Engineering**

India

2011-2015

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## PUBLICATIONS

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### [Stock Market Analysis: A Review and Taxonomy of Prediction Techniques](#)

May 2019

- *Authors:* Dev Shah, Haruna Isah, Farhana Zulkernine
- *Venue:* IJFS - Special issue on new trends in algorithmic trading
- *Citations:* 100+

### [A Comparative Study of LSTM and DNN for Stock Market Forecasting](#)

Dec 2018

- *Authors:* Dev Shah, Wesley Campbell, Farhana Zulkernine
- *Venue:* IEEE International Conference on Big Data
- *Citations:* 6

### [Predicting the Effects of News Sentiments on the Stock Market](#)

Dec 2018

- *Authors:* Dev Shah, Haruna Isah, Farhana Zulkernine
- *Venue:* IEEE International Conference on Big Data
- *Citations:* 11