

# MRUNAL GHORPADE

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## EDUCATION

**Northeastern University** Boston, MA, USA

August 2018-2020

Master of Science in **Information System**

Courses: Algorithms, DevOps, Cloud Computing, Web Development Tools and Methods, Big data indexing

**Savitribai Phule Pune University(SPPU)**, Pune, India

July 2013-2017

Bachelor of Engineering in **Computer Engineering**

Courses: Object Oriented Programming, Compilers, Operating Systems, Database Management

## TECHNICAL STRENGTHS

**Language/Scripts**

Java, Javascript, Nodejs, Shell script

**Databases**

MYSQL, Postgres, MongoDB, Redis, Cassandra, Elastic Search

**Collaboration/build/documentation tools**

Git, CircleCI, TravisCI, JIRA, Jenkins, Swagger

**Web Technologies**

HTML5, CSS, jQuery, ReactJS

**Cloud/Deployment Technologies**

AWS, Azure, Docker, Kubernetes, Terraform

**Operating Systems**

Linux, Windows

## WORK EXPERIENCE

**Retail Business Services-Ahold Delhaize**

June 2019 - December 2019

Backend Developer co-op

Quincy, MA

- Developed web and mobile based applications used by store managers and corporate executives across the company
- Worked on developing RESTful APIs using NodeJs, MongoDB containerized using Docker, deployed on Azure
- Improved query performance 15% by analyzing data in mongodb compass and creating indexes
- Used Gremlin API in Azure CosmosDB to develop paths based on graph data. Used Chai and Mocha for TDD
- Implemented CI/CD pipelines using Azure Devops, created swagger documentations for APIs

**Ellicium Solutions**

November 2017- June 2018

Senior Software Engineer

Pune, India

- Underwent training for one month, which involved software development using Java, Oracle 11g
- Developed large scale web application for windows based system. Used java spring for communication with TIBCO
- Added features based on user stories, developed frontend screens with JQuery framework(Kendo UI) and Ajax
- Created various TIBCO BW processes for application integration. Used Git for source code management
- Followed Agile software development methodology. Gained proficiency in client communication

## PROJECTS

**COVID-19 Research Volunteer website**

Ongoing

- Founder member of the project. Lead for source code management and CI/CD team
- Lead Engineer in backend development and Nosql database design and development

**Bill Management System**

Spring 2019

- Developed APIs in Nodejs. Created an AWS architecture along with networking setup for deployment
- Developed JSON,YAML scripts using packer and cloudformation for infrastructure setup. Implemented serverless architecture. Used messaging queue and notification services

**E-Commerce website**

Spring 2018

- Build a shopping website using SpringMVC, Hibernate, MySQL, and JSP
- Created terraform deployment scripts. Deployed the application on AWS using EKS clusters.

**Robotic Controller Maze Navigation Using Genetic Algorithms**

Spring 2018

- Used Genetic Algorithm to design a robotic controller, that uses sensors to navigate through a maze
- Designed Junit tests to check efficiency of the algorithm. Generated API documentation using javaDoc tool

**Movie Recommendation Systems**

June 2016 - June 2017

Sponsored by: Persistent Systems

Pune, India

- Used speech to text and text to speech algorithms for interaction. Developed bash script to trigger the algorithm
- Studied data mining algorithms-Naive Bayes, Random Forest, Decision Tree, SVM. Used Naive Bayes