

# 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, C#, Javascript, Nodejs, Shell Script

**Databases**

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

**Collaboration/build/documentation tools**

Git, CircleCI, Apache Tomcat, Maven, JIRA, 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 documentation for APIs

**Ellicium Solutions**

November 2017- June 2018

Senior Software Engineer

Pune, India

- Worked on developing a regulatory reporting automation solution for one of the big four accounting firms
- Followed MVC approach for development on windows based system. Used Apache Tomcat for deployments
- Added application features based on user stories. Used SpringMVC, Javascript, JQuery(kendo UI), for development
- Created various TIBCO BW processes to implement business logic. Used SVN for source code management
- Followed the 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 a highly scalable AWS architecture along with networking setup for deployment
- Developed JSON scripts using packer and cloudformation for infrastructure setup. Implemented serverless architecture. Used services like SNS, SQL, Lambda, EC2, S3, CodeDeploy, CloudWatch

**Bigdata- Elastic Search**

Spring 2019

- Developed SpringBoot application which utilizes JSON schema to store documents into Redis.
- Used technologies like Elastic Search for data indexing, Kibana for data visualization and querying, OAuth for token generation, Etag for caching and conditional requests

**E-Commerce website**

Spring 2018

- Build a prototype for 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